SAFETY DATA SHEET



EXXONMOBIL™ DIPE

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : EXXONMOBIL™ DIPE

EC number : 203-560-6

REACH Registration number

Registration number

01-2119548382-38-0001

CAS number : 108-20-3 **Product description** : Ether

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Use : Fuel additive, Solvent

Identified uses

Manufacture of substance

Distribution of substance

Formulation and (re)packing of substances and mixtures

Use in coatings - Industrial Use as a fuel - Industrial Functional fluids - Industrial Use in laboratories - Industrial

Use in mining chemicals - Industrial

Use in coatings - Professional Use as a fuel - Professional

Functional fluids - Professional

Use in laboratories - Professional

Use in coatings - Consumer Use as a fuel - Consumer

Functional fluids - Consumer

1.3 Details of the supplier of the safety data sheet

Supplier : ExxonMobil Petroleum & Chemical BV

POLDERDIJKWEG

Antwerpen B-2030 Belgium

Supplier General Contact : + 32 2 239 3111

e-mail address of person responsible for this SDS

: SDS-CC@exxonmobil.com

SDS Internet Address : www.sds.exxonmobil.com

1.4 Emergency telephone number

National advisory body/

Poison Centre

24 Hour Emergency : +48 22 398 80 29 / +1-703-527-3887 (CHEMTREC)

Telephone

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour. H336 - May cause drowsiness or dizziness.

Precautionary statements

Prevention

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P261 - Avoid breathing vapour.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection, face protection,

or hearing protection.

Response : P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P304 + P312, P340 - IF INHALED: Call a POISON CENTER or doctor if you feel

unwell. Remove person to fresh air and keep comfortable for breathing.

P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide

(CO2) to extinguish flames.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Keep cool. P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients

Supplemental label

elements

: diisopropyl ether

EUH019 - May form explosive peroxides.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : 3, 40

2.3 Other hazards

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EXXONMOBIL™ DIPE

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB
No	N/A	N/A	No	N/A	N/A	N/A

Other hazards which do not result in classification

: None known.

Nota

: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3: Composition/information on ingredients

3.1 Substances

: Mono-constituent substance

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
diisopropyl ether	REACH #: 01-2119548382-38 EC: 203-560-6 CAS: 108-20-3	99	Flam. Liq. 2, H225 STOT SE 3, H336 EUH019 EUH066 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe.

SECTION 4: First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products

: Incomplete combustion products, Oxides of carbon, Smoke, Fume

5.3 Advice for firefighters

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SECTION 5: Firefighting measures

Special protective actions for fire-fighters

: Use standard firefighting procedures and consider the hazards of other involved materials. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Assure an extended cooling down period to prevent re-ignition. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

SECTION 6: Accidental release measures

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Eliminate all ignition sources. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Do not confine in area of spill. Allow liquid to evaporate from the surface. Seek the advice of a specialist before using dispersants. Advise occupants and shipping in downwind areas of fire and explosion hazard and warn them to stay clear. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Static Accumulator

This material is a static accumulator. A liquid is typically considered a nonconductive, static accumulator if its conductivity is below 100 pS/m (100x10E-12 Siemens per meter) and is considered a semiconductive, static accumulator if its conductivity is below 10,000 pS/m. Whether a liquid is nonconductive or semiconductive, the precautions are the same. A number of factors, for example liquid temperature, presence of contaminants, anti-static additives and filtration can greatly influence the conductivity of a liquid.

Loading/Unloading Temperature

: Ambient

Transport Temperature : Ambient
Transport Pressure : Ambient

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

Storage Temperature : Ambient Storage Pressure : Ambient

Suitable Containers/

Packing

: Tank Cars, Tank Trucks, Drums, Pipelines, Railcars

Suitable Materials and

Coatings

: Carbon Steel, butyl rubber, CAF Joints

Unsuitable Materials and

Coatings

: Natural Rubber

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
diisopropyl ether	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). TWA: 1000 mg/m³ 8 hours. ACGIH TLV (United States, 1/2022). TWA: 250 ppm 8 hours. TWA: 1040 mg/m³ 8 hours.
	STEL: 310 ppm 15 minutes. STEL: 1300 mg/m³ 15 minutes.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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SECTION 8: Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 4 - 8 hours (breakthrough time): Polyethylene (HPPE laminated film), minimum 0.07 mm thickness or comparable protective barrier material

CEN standards EN 420 and EN 374 provide general requirements and lists of glove types.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties and safety characteristics

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Clear]
Colour : Colourless
Odour : Sharp
Odour threshold : Not available.

pH : Not applicable.Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range

: 68°C (154.4°F) [Technical literature]

Flash point : Closed cup: -28°C (-18.4°F) [Calculated]

Evaporation rate : 13 (butyl acetate = 1) [Calculated]
Flammability : Flammable liquids - Category 2

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Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion : Lower: 1.4% [Extrapolated]

limit Upper: 8%

Vapour pressure : 120.01 mm Hg [20 °C] [Calculated]

Relative vapour density : 3.5 [Air = 1] [Calculated]

Relative density : 0.72 [Calculated]

Density : 0.72 g/cm³ [15°C (59°F)] [ASTM D4052]

Solubility in water : Moderate

Partition coefficient: n-octanol/ : <4

water

Auto-ignition temperature : 443°C (829.4°F) [Extrapolated]

Decomposition temperature : Not available. **Viscosity** : 0.44 cSt [20 °C]

Molecular weight : 102

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Hygroscopic : No

Coefficient of Thermal : 0.00103 per Deg C

Expansion

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

allow vapour to accumulate in low or confined areas.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:,oxidising materials,amines, Strong oxidisers, acids, Chlorinated Compounds, Aldehydes, Air, Caustics,

Alkanolamines

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
diisopropyl ether	LCLo Inhalation Vapour	Rabbit	>64 mg/l	1 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	4600 mg/kg	-
diisopropyl ether	LD50 Oral	Rat	4600 mg/kg	-

Conclusion/Summary

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SECTION 11: Toxicological information

Inhalation : Minimally Toxic. Data available. Based on test data for the material. Test(s)

equivalent or similar to OECD Guideline 403

Dermal : Minimally Toxic. Data available. Based on test data for the material. Test(s)

equivalent or similar to OECD Guideline 402

Oral : Minimally Toxic. Data available. Based on test data for the material. Test(s)

equivalent or similar to OECD Guideline 401

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapours)	Inhalation (dusts and mists) (mg/l)
diisopropyl ether	2500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary

Skin : May dry the skin leading to discomfort and dermatitis. Mildly irritating to skin with

prolonged exposure. Data available. Based on test data for the material. Test(s)

equivalent or similar to OECD Guideline 404

Eyes: May cause mild, short-lasting discomfort to eyes. Data available. Based on test

data for the material. Test(s) equivalent or similar to OECD Guideline 405

Respiratory : Negligible hazard at ambient/normal handling temperatures. No end point data for

material.

Sensitisation

Conclusion/Summary

Skin : Not expected to be a skin sensitizer. Data available. Based on test data for the

material. Test(s) equivalent or similar to OECD Guideline 429

Respiratory

tory : Not expected to be a respiratory sensitizer. No end point data for material.

<u>Mutagenicity</u>

Conclusion/Summary: Not expected to be a germ cell mutagen. Data available. Based on test data for the

material. Test(s) equivalent or similar to OECD Guideline 471 473 476 480

Carcinogenicity

Conclusion/Summary: Not expected to cause cancer. Data available. Based on test data for the material.

Test(s) equivalent or similar to OECD Guideline 451

Reproductive toxicity

Conclusion/Summary: Not expected to be a reproductive toxicant. Data available. Based on test data for the

material. Test(s) equivalent or similar to OECD Guideline 414

Specific target organ toxicity (single exposure)

Conclusion/Summary: May cause drowsiness or dizziness. No end point data for material.

Specific target organ toxicity (repeated exposure)

Conclusion/Summary: Not expected to cause organ damage from prolonged or repeated exposure. Data

available. Based on test data for the material. Test(s) equivalent or similar to OECD

Guideline 413

Aspiration hazard

Conclusion/Summary: Not expected to be an aspiration hazard. Based on physico-chemical properties of

the material. No end point data for material.

Information on likely routes

: Not available.

of exposure

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No known endocrine disrupting properties that affect human health

11.2.2 Other information

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SECTION 11: Toxicological information

Contains : Diisopropyl ether (DIPE) : Inhalation exposure of animals to DIPE produced decreased motor activity, maternal toxicity, and toxicity to the fetus of laboratory

animals.

Product : Vapour concentrations above recommended exposure levels are irritating to the

eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in

possible irritation and dermatitis.

Section 12. Ecological information

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

12.1 Toxicity

Product/ingredient name	Duration	Species	Result
diisopropyl ether	96 hours	Algae - Pseudokirchneriella subcapitata	Acute EC50 >1000 mg/l
	96 hours	Fish - Pimephales promelas	Acute EC50 786 mg/l
	48 hours	daphnia - Daphnia magna	Acute EC50 190 mg/l

Conclusion/Summary

Acute toxicity : Not expected to be harmful to aquatic organisms.

Chronic toxicity : Not expected to demonstrate chronic toxicity to aquatic organisms

12.2 Persistence and degradability

Photolysis : 0.221 day Calculated

(s)

Hydrolysis : Material -- Transformation due to hydrolysis not expected to be significant.
 Photolysis : Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation : Material -- Expected to degrade rapidly in air

12.3 Bioaccumulative potential

Conclusion/Summary : Material -- Potential to bioaccumulate is low.

12.4 Mobility in soil

Mobility : Material -- Highly volatile, will partition rapidly to air. Not expected to partition to

sediment and wastewater solids.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
diisopropyl ether	No	N/A	N/A	No	N/A	N/A	N/A

12.6 Endocrine disrupting properties

No known endocrine disrupting properties that affect the environment

12.7 Other adverse effects

Other adverse effects : No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

The European Waste Catalogue (EWC) code is specific to the waste generating process and waste constituents. Determine the EWC according to the criteria provided in the European Waste Catalogue and the hazardous waste list established by Commission Decision 2000/532/EC, as amended.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1159	UN1159	UN1159	UN1159
14.2 UN proper shipping name	(diisopropyl ether)	(diisopropyl ether)	(diisopropyl ether)	(diisopropyl ether)
14.3 Transport hazard class(es)	3	3	3	3
Label(s) / Mark(s)				
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.

Flash point -28 °C C.C.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Poland

EXXONMOBIL™ DIPE

SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

Proper shipping name

Remarks

: ISOPROPYL ETHER : Liquid bulk cargoes:

Ship type: 3

Pollution category: Y

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : 3, 40

on the manufacture, placing on the market

and use of certain

dangerous substances,

mixtures and articles

Other EU regulations

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P₅c

National regulations

Inventory list

Australia inventory (AIIC) : All components are listed or exempted. Canada inventory (DSL-NDSL) : All components are listed or exempted. **China inventory (IECSC)** All components are listed or exempted. Japan inventory (CSCL) All components are listed or exempted.

Japan inventory (Industrial Safety and

Health Act)

: All components are listed or exempted.

New Zealand Inventory of Chemicals

(NZIoC)

: All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted. **Korea inventory (KECI)** All components are listed or exempted.

Taiwan Chemical Substances Inventory

(TCSI)

: All components are listed or exempted.

United States inventory (TSCA 8b) : All components are active or exempted.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

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SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
1 , -	On basis of test data Calculation method	

Full text of abbreviated H statements

H225 Highly flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of : 9 August 2023

revision

Date of previous issue : No previous edition

Version : 1

Product code : 1161092_13528078

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Manufacture of substance

List of use descriptors

: Identified use name: Manufacture of substance

Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b,

PROC15

Sector of end use: SU03, SU08, SU09, SU10 Subsequent service life relevant for that use: No. Environmental Release Category: ERC01, ERC04

scenarios

Environmental contributing: General exposures - ERC01, ERC04

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC04, PROC08a, PROC08b, PROC15

General exposures (closed systems) - PROC01, PROC02, PROC03

General exposures (open systems) - PROC04

Process sampling - PROC08b **Laboratory activities - PROC15** Bulk transfers - PROC08b

Bulk transfers (closed systems) - PROC08b Equipment cleaning and maintenance - PROC08a

Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

: Manufacture of the substance or use as an intermediate, process chemical or extracting agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (ncluding marine vessel/barge, road/rail car and bulk

container).

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 1 000 tonnes/year Average local daily tonnage(kg/day): 50 000 kg/day

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 350 days per year

Environment factors not influenced by risk

management

: Not applicable.

: Not applicable.

Other conditions affecting environmental exposure

Technical conditions and measures at process level (source) to prevent release

: Not applicable.

Technical on-site conditions and measures to

reduce or limit discharges, air emissions and releases to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

Date of issue/Date of revision : 12/14/2022 15/110 **EXXONMOBIL™ DIPE** Manufacture of substance

: Do not apply industrial sludge to natural soils.

Organisational measures to prevent/limit release from

Conditions and measures related to sewage treatment : Maximum allowable site tonnage (MSafe): [Assumed domestic sewage treatment plant flow]: 2 868 kg/day

Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures

related to external treatment of waste for

disposal **Conditions and measures** : Not applicable.

: Not applicable.

: Liquid

related to external recovery of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice...

Product characteristics

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting

workers exposure

: Assumes use at not more than 20°C above ambient temperaure.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

Product characteristics : Liquid

Concentration of substance in mixture or : Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

article

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting

workers exposure

: Assumes use at not more than 20°C above ambient temperaure.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Date of issue/Date of revision : 12/14/2022 16/110 **EXXONMOBIL™ DIPE** Manufacture of substance

Contributing scenario controlling worker exposure for 4: General exposures (open systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting : Assumes use at not more than 20°C above ambient temperaure.

workers exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 5: Process sampling

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

Other conditions affecting

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

: Assumes use at not more than 20°C above ambient temperaure.

workers exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 6: Laboratory activities

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure Other conditions affecting : Assumes use at not more than 20°C above ambient temperaure.

workers exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented occupational hygiene

Contributing scenario controlling worker exposure for 7: Bulk transfers

Open systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Other conditions affecting

: Assumes use at not more than 20°C above ambient temperaure.

workers exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Date of issue/Date of revision : 12/14/2022 17/110 **EXXONMOBIL™ DIPE** Manufacture of substance

Contributing scenario controlling worker exposure for 8: Bulk transfers (closed systems)

Product characteristics : Liquid

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperaure.

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperaure.

Technical conditions and measures at process level (source) to prevent release : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Storage

Product characteristics : Liquid

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Assumes use at not more than 20°C above ambient temperaure.

Technical conditions and measures at process level (source) to prevent release : Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

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Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 6.1a.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: General exposures (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Process sampling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Laboratory activities

Exposure assessment (human):

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Bulk transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Bulk transfers (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Manufacture of substance

Exposure estimation and reference to its source - Workers: 10: Storage

Exposure assessment (human):

Exposure estimation and reference to its source

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

 Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available. **Health** : Not available.

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Distribution of substance

List of use descriptors

: Identified use name: Distribution of substance

Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b,

PROC09, PROC15

Sector of end use: SU03, SU08, SU09

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC01, ERC02, ERC03, ERC04, ERC05,

ERC06a, ERC06b, ERC06c, ERC06d, ERC07

scenarios

Environmental contributing: General exposures - ERC01, ERC02, ERC03, ERC04, ERC05, ERC06a, ERC06b,

ERC06c, ERC06d, ERC07

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC04, PROC08a, PROC08b, PROC09, PROC15

General exposures (closed systems) - PROC01, PROC02, PROC03

General exposures (open systems) - PROC04

Process sampling - PROC03 Laboratory activities - PROC15 Bulk transfers - PROC08b

Bulk transfers (closed systems) - PROC08b Drum and small package filling - PROC09

Equipment cleaning and maintenance - PROC08a

Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

: Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage,

unloading distribution and associated laboratory activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 1 000 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting

environmental exposure

: Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

to soil

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: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Organisational measures to prevent/limit release from

Conditions and measures related to sewage treatment

: Not applicable.

Conditions and measures related to external

treatment of waste for

disposal

: Not applicable.

Conditions and measures related to external recovery

: Not applicable.

of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics

Concentration of

substance in mixture or

Frequency and duration of

article

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

: Liquid

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure Technical conditions and

: Handle substance within a closed system.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 4: General exposures (open systems)

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

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Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 5: Process sampling

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Laboratory activities

: Liquid **Product characteristics**

Concentration of

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Bulk transfers

Open systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: Bulk transfers (closed systems)

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Drum and small package filling

Product characteristics Liquid

Concentration of

: Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

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Ventilation control measures

: Provide a good standard of general ventilation (not less than 3 to 5 air changes per

hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of substance in mixture or

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

Technical conditions and measures at process level (source) to prevent release : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 11: Storage

Product characteristics : Liquid

Concentration of substance in mixture or : Covers percentage substance in the product up to 100 %.

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of use/exposure

: Store substance within a closed system.

Technical conditions and measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 1.1b.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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Exposure estimation and reference to its source - Workers: 4: General exposures (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Process sampling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Laboratory activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Bulk transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Bulk transfers (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Drum and small package filling

Exposure assessment (human):

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

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Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Date of issue/Date of revision : 12/8/2022 26/110



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

List of use descriptors

scenario

: Formulation and (re)packing of substances and mixtures

: Identified use name: Formulation and (re)packing of substances and mixtures Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC09, PROC14, PROC15

Sector of end use: SU03, SU10

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC02

scenarios

Environmental contributing: General exposures - ERC02

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15

General exposures (closed systems) - PROC01, PROC02, PROC03

General exposures (open systems) - PROC04

Batch processes at elevated temperatures - PROC03

Process sampling - PROC03 Laboratory activities - PROC15 Bulk transfers - PROC08b

Mixing operations (open systems) - PROC05 Transfer from/pouring from containers - PROC08a

Drum/batch transfers - PROC08b

Production of preparation or articles by tabletting, compression, extrusion or

pelletisation - PROC14

Drum and small package filling - PROC09

Equipment cleaning and maintenance - PROC08a

Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

: Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 1 000 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not

: Not applicable.

influenced by risk management

: Not applicable.

Other conditions affecting environmental exposure

Technical conditions and

: Not applicable.

measures at process level (source) to prevent release

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Formulation and (re)packing of substances and mixtures

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

Organisational measures to prevent/limit release from site

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment plant

: Not applicable.

Conditions and measures related to external treatment of waste for disposal

: Not applicable.

Conditions and measures related to external recovery of waste

: Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

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Formulation and (re)packing of substances and mixtures

Contributing scenario controlling worker exposure for 4: General exposures (open systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

Concentration of substance in mixture or

article

Frequency and duration of : Co

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 5: Batch processes at elevated temperatures

Product characteristics : Liquid

Concentration of: Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting

workers exposure

: Operation is carried out at elevated temperature (> 20°C above ambient

temperature)

Technical conditions and measures at process level (source) to prevent release

: Formulate in enclosed or ventilated mixing vessels.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Process sampling

Product characteristics : Liquid

Concentration of :

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Laboratory activities

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: Bulk transfers

Product characteristics : Liquid

Concentration of : Covers percent

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

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Formulation and (re)packing of substances and mixtures

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Mixing operations (open systems)

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

: Covers percentage substance in the product up to 100 %.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Transfer from/pouring from containers

Manual

Product characteristics : Liquid

Concentration of substance in mixture or

article

Frequency and duration of

: Avoid carrying out activities involving exposure for more than 4 hours

use/exposure

Ventilation control

measures

: Provide a good standard of general ventilation (not less than 3 to 5 air changes per

hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 11: Drum/batch transfers

Product characteristics : Liquid

Concentration of

substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Use drum pumps or carefully pour from container.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 12: Production of preparation or articles by tabletting, compression, extrusion or pelletisation

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

measures

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

: Handle substance within a predominantly closed system provided with extract

ventilation.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

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Formulation and (re)packing of substances and mixtures

Contributing scenario controlling worker exposure for 13: Drum and small package filling

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Fill containers/cans at dedicated fill points supplied with local extract ventilation.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 14: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 15: Storage

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 2.2.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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Formulation and (re)packing of substances and mixtures

Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: General exposures (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Batch processes at elevated temperatures

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Process sampling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Laboratory activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Bulk transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Mixing operations (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Transfer from/pouring from containers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Formulation and (re)packing of substances and mixtures

Exposure estimation and reference to its source - Workers: 12: Production of preparation or articles by tabletting, compression, extrusion or pelletisation

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 13: Drum and small package filling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 14: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 15: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in coatings - Industrial

List of use descriptors

: Identified use name: Use in coatings - Industrial

Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07,

PROC08a, PROC08b, PROC10, PROC13, PROC15

Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC04

Environmental contributing: General exposures - ERC04

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC10, PROC13, PROC15

General exposures (closed systems) - PROC01, PROC02

Film formation - force drying, stoving and other technologies - PROC02

Mixing operations (closed systems) - PROC03

Film formation - air drying - PROC04

Preparation of material for application - PROC05

Spraying (automatic/robotic) - PROC07

Manual spraying - PROC07

Material transfers - PROC08a, PROC08b Roller, spreader, flow application - PROC10 Dipping, immersion and pouring - PROC13

Laboratory activities - PROC15

Equipment cleaning and maintenance - PROC08a

Storage - PROC01

Processes and activities covered by the exposure

scenario

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not

influenced by risk management

: Not applicable.

Other conditions affecting

: Not applicable.

environmental exposure **Technical conditions and**

: Not applicable.

measures at process level (source) to prevent release

Date of issue/Date of revision : 12/12/2022 34/110 EXXONMOBIL™ DIPE Use in coatings - Industrial

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

Organisational measures to prevent/limit release from site

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment plant

: Not applicable.

Conditions and measures related to external treatment of waste for disposal

: Not applicable.

Conditions and measures related to external recovery of waste

: Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

With sample collection / Use in contained systems

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level

: Handle substance within a closed system.

(source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

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Use in coatings - Industrial

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Contributing scenario controlling worker exposure for 4: Film formation - force drying, stoving and other

technologies

Product characteristics : Liquid

Concentration of substance in mixture or : Covers percentage substance in the product up to 100 %.

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Operation is carried out at elevated temperature (> 20°C above ambient

temperature)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 5: Mixing operations (closed systems)

General exposures (closed systems) Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of use/exposure

: Handle substance within a closed system.

Technical conditions and measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Film formation - air drying

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Preparation of material for application

Mixing operations (open systems) Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of use/exposure

: Provide extract ventilation to points where emissions occur.

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control measures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

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EXXONMOBIL™ DIPE Use in coatings - Industrial

Contributing scenario controlling worker exposure for 8: Spraying (automatic/robotic)

Product characteristics: Spray

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of

use/exposure

Technical conditions and measures at process level (source) to prevent release

: Carry out in a vented booth provided with laminar airflow.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Manual spraying

Product characteristics: Spray

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Respiratory protection: Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 10: Material transfers

Dedicated facility / Non-dedicated facility

Product characteristics : Liquid : Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

: Provide extract ventilation to points where emissions occur.

measures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 11: Roller, spreader, flow application

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

Frequency and duration of

article

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

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Use in coatings - Industrial

Contributing scenario controlling worker exposure for 12: Dipping, immersion and pouring

Product characteristics : Liquid

: Covers percentage substance in the product up to 100 %.

Concentration of substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

prevent/limit releases, dispersion and exposure

Organisational measures to : Avoid manual contact with wet work pieces.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 13: Laboratory activities

Product characteristics : Liquid

Concentration of

article

substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 14: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of

substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level

(source) to prevent release

: Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 15: Storage

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 4.3a,v1 ESVOC SPERC 8.3b,v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Film formation - force drying, stoving and other technologies

Exposure assessment (human):

 The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Mixing operations (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Film formation - air drying

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Preparation of material for application

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Spraying (automatic/robotic)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Manual spraying

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Material transfers

Exposure assessment (human):

 The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Roller, spreader, flow application

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 12: Dipping, immersion and pouring

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 13: Laboratory activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 14: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 15: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use as a fuel - Industrial

List of use descriptors

: Identified use name: Use as a fuel - Industrial

Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC16

Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC07

Environmental contributing: General exposures - ERC07

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC08a, PROC08b, PROC16 Bulk transfers - PROC08b Drum/batch transfers - PROC08b

General exposures (closed systems) - PROC01, PROC02, PROC03

Use as a fuel - PROC03, PROC16

Equipment cleaning and maintenance - PROC08a

Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

Covers the use as a fuel (or fuel additive) and includes activities associated with its

transfer, use, equipment maintenance and handling of waste.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 200 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting environmental exposure

: Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges,

air emissions and releases

to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil. Volatile compounds subject to air emission controls.

prevent/limit release from

site

Organisational measures to : Prevent discharge of undissolved substance to or recover from onsite wastewater.

EXXONMOBIL™ DIPE Use as a fuel - Industrial

Conditions and measures : Not applicable.

related to sewage treatment

plant

Conditions and measures

related to external treatment of waste for disposal

: Not applicable.

Conditions and measures

related to external recovery

: Not applicable.

of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Bulk transfers

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 4: Drum/batch transfers

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Use as a fuel - Industrial

Contributing scenario controlling worker exposure for 5: General exposures (closed systems)

Use in contained batch processes

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

Handle substance within a closed system.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Use as a fuel

Closed systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Technical conditions and : Handle substance within a closed system.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of

use/exposure

Technical conditions and

measures at process level (source) to prevent release : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: Storage

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

: Store substance within a closed system.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Use as a fuel - Industrial

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 7.12a.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: Bulk transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Use as a fuel

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

EXXONMOBIL™ DIPE	Use as a fuel - Industrial
Environment	: Not applicable.
Health	: Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Functional fluids - Industrial

List of use descriptors

: Identified use name: Functional fluids - Industrial

Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b,

PROC09

Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC07

Environmental contributing: General exposures - ERC07

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC04, PROC08a, PROC08b, PROC09

Bulk transfers (closed systems) - PROC01, PROC02

Drum/batch transfers - PROC08b Filling of articles/equipment - PROC09

Filling/preparation of equipment from drums or containers. - PROC08a

General exposures (closed systems) - PROC02, PROC03

General exposures (open systems) - PROC04 Remanufacture of reject articles - PROC09 Equipment maintenance - PROC08a

Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material

transfers.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting environmental exposure

: Not applicable.

Technical conditions and measures at process level (source) to prevent release

: Not applicable.

Technical on-site

conditions and measures to reduce or limit discharges. air emissions and releases

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

to soil

EXXONMOBIL™ DIPE Functional fluids - Industrial

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Organisational measures to

prevent/limit release from

: Not applicable.

Conditions and measures related to sewage treatment

Conditions and measures

related to external treatment of waste for disposal

: Not applicable.

Conditions and measures

: Not applicable.

related to external recovery of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Bulk transfers (closed systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Transfer via enclosed lines.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

47/110

Contributing scenario controlling worker exposure for 4: Drum/batch transfers

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

EXXONMOBIL™ DIPE Functional fluids - Industrial

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 5: Filling of articles/equipment

Product characteristics : Liquid

Concentration of

substance in mixture or article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

: Covers percentage substance in the product up to 100 %.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Filling/preparation of equipment from drums or

containers.

Product characteristics : Liquid

Concentration of

substance in mixture or

Frequency and duration of

article

: Avoid carrying out activities involving exposure for more than 4 hours

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: General exposures (closed systems)

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: General exposures (open systems)

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Operation is carried out at elevated temperature (> 20°C above ambient

Ventilation control

measures

temperature)

: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

48/110

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Functional fluids - Industrial

Contributing scenario controlling worker exposure for 9: Remanufacture of reject articles

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control measures

: Provide a good standard of general ventilation (not less than 3 to 5 air changes per

hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Equipment maintenance

Product characteristics : Liquid

Concentration of substance in mixture or

article

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours

Technical conditions and measures at process level (source) to prevent release

: Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 11: Storage

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

Technical conditions and

measures at process level (source) to prevent release : Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 7.13a.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment

(human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

49/110

EXXONMOBIL™ DIPE Functional fluids - Industrial

Exposure estimation and reference to its source - Workers: 3: Bulk transfers (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Filling of articles/equipment

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Filling/preparation of equipment from drums or containers.

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: General exposures (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Remanufacture of reject articles

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Equipment maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Functional fluids - Industrial

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	:	Not applicable.
Health	:	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in laboratories - Industrial

List of use descriptors

: Identified use name: Use in laboratories - Industrial

Process Category: PROC15 Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC04

Environmental contributing: General exposures - ERC04

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PROC15

Laboratory activities - PROC15

Processes and activities

covered by the exposure

scenario

: Use of the substance within laboratory settings, including material transfers and

equipment cleaning

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

: Continuous release

Emission days (days per year): 20 days per year

Environment factors not

influenced by risk

management

Other conditions affecting environmental exposure

: Not applicable.

: Not applicable.

Technical conditions and measures at process level (source) to prevent release

Technical on-site

conditions and measures to reduce or limit discharges. air emissions and releases

to soil

site

plant

Organisational measures to prevent/limit release from

Conditions and measures related to sewage treatment

Conditions and measures

related to external treatment of waste for

disposal

: Not applicable.

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

: Not applicable.

: Not applicable.

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Use in laboratories - Industrial

Conditions and measures related to external recovery of waste

: Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics

Concentration of substance in mixture or

article

Frequency and duration of

use/exposure

: Covers percentage substance in the product up to 100 %.

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Laboratory activities

: Liquid

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 4.24.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Use in laboratories - Industrial

Exposure estimation and reference to its source - Workers: 3: Laboratory activities

Exposure assessment (human):

Exposure estimation and reference to its source

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Date of issue/Date of revision: 12/12/2022 54/110



Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in mining chemicals - Industrial

List of use descriptors

: Identified use name: Use in mining chemicals - Industrial

Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC09 Sector of end use: SU03

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC04

Environmental contributing: General exposures - ERC04

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC04, PROC05, PROC08a, PROC08b, PROC09

Bulk transfers (closed systems) - PROC02

Drum/batch transfers - PROC08b Pouring from small containers - PROC09

General exposures (closed systems) - PROC03 General exposures (open systems) - PROC05

Phase separation - PROC04

Ion exchange processes - PROC02

Process sampling - PROC03

Mixing operations (closed systems) - PROC01 Equipment cleaning and maintenance - PROC08a

Storage - PROC01

Processes and activities covered by the exposure

scenario

Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance

recovery and disposal.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 2 000 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not

influenced by risk

: Not applicable.

management

Other conditions affecting environmental exposure

: Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Use in mining chemicals - Industrial

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil. Volatile compounds subject to air emission controls.

Organisational measures to prevent/limit release from

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment plant

: Not applicable.

Conditions and measures related to external treatment of waste for disposal

: Not applicable.

Conditions and measures related to external recovery of waste

: Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Bulk transfers (closed systems)

Product characteristics: Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

article

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

: Transfer via enclosed lines.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Use in mining chemicals - Industrial

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Contributing scenario controlling worker exposure for 4: Drum/batch transfers

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

Concentration of substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 5: Pouring from small containers

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 6: General exposures (closed systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 7: General exposures (open systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Technical conditions and : Ensure operation is undertaken outdoors.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Personal protection : Wear suitable gloves tested to EN374.

Contributing scenario controlling worker exposure for 8: Phase separation

Closed systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

Frequency and duration of

article

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Use in mining chemicals - Industrial

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Ion exchange processes

Closed systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Process sampling

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 11: Mixing operations (closed systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

: Assumes a good basic standard of occupational hygiene is implemented Advice on general

occupational hygiene

Contributing scenario controlling worker exposure for 12: Equipment cleaning and maintenance

Product characteristics : Liquid

: Covers percentage substance in the product up to 100 %. **Concentration of**

substance in mixture or

article

: Covers daily exposures up to 8 hours (unless stated differently)

Frequency and duration of use/exposure

Technical conditions and measures at process level (source) to prevent release : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 13: Storage

Product characteristics Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Use in mining chemicals - Industrial

Technical conditions and measures at process level (source) to prevent release

: Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 4.23.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: Bulk transfers (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Pouring from small containers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: General exposures (open systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Phase separation

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Ion exchange processes

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Process sampling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Mixing operations (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 12: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 13: Storage

Exposure assessment (human):

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available. **Health** : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in coatings - Professional

List of use descriptors : Identified use name: Use in coatings - Professional

Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC10, PROC11, PROC13, PROC15, PROC19

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d

scenarios

Environmental contributing: General exposures - ERC08a, ERC08d

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC15,

PROC19

General exposures (closed systems) - PROC01, PROC02

Filling/preparation of equipment from drums or containers. - PROC02

Preparation of material for application - PROC03

Film formation - air drying - PROC04

Film formation - PROC04

Preparation of material for application (Indoor) - PROC05 Preparation of material for application (Outdoor) - PROC05

Material transfers - PROC08a Material transfers - PROC08b

Roller, spreader, flow application - PROC10 Roller, spreader, flow application - PROC10

Manual spraying - PROC11

Spraying - PROC11

Dipping, immersion and pouring - PROC13 Dipping, immersion and pouring - PROC13

Laboratory activities - PROC15

Hand application - finger paints, pastels, adhesives - PROC19 Hand application - fingerpaints, pastels, adhesives - PROC19

Equipment cleaning and maintenance - PROC08a

Storage - PROC01

Processes and activities covered by the exposure scenario

: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.

Section 2 - Exposure controls

Use in coatings - Professional

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Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 0.1

Frequency and duration of

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk management

: Not applicable.

Other conditions affecting environmental exposure

: Not applicable.

Technical conditions and measures at process level (source) to prevent release : Not applicable.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

Organisational measures to prevent/limit release from site

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment

: Not applicable.

plant **Conditions and measures**

related to external treatment of waste for : Not applicable.

disposal

Conditions and measures related to external recovery

of waste

: Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice...

Product characteristics : Liquid

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Use in coatings - Professional

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

Use in contained systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 4: Filling/preparation of equipment from drums or containers.

Use in contained systems

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

Frequency and duration of

article

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Technical conditions and

measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 5: Preparation of material for application

Use in contained batch processes

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

Frequency and duration of

article

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Ventilation control

: Provide extract ventilation to points where emissions occur.

measures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: Film formation - air drying

Outdoor

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level

: Ensure operation is undertaken outdoors.

(source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

EXXONMOBIL™ DIPE Use in coatings - Professional

Advice on general

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

: Wear a respirator conforming to EN140 with type A filter or better. Respiratory protection

Contributing scenario controlling worker exposure for 7: Film formation

air drying / Indoor

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general

: Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene **Respiratory protection**

: Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 8: Preparation of material for application (Indoor)

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 9: Preparation of material for application (Outdoor)

Product characteristics : Liquid

Concentration of

: Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

: Wear a respirator conforming to EN140 with type A filter or better. Respiratory protection

Contributing scenario controlling worker exposure for 10: Material transfers

Drum/batch transfers

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

: Avoid carrying out activities involving exposure for more than 1 hour

Use in coatings - Professional

Contributing scenario controlling worker exposure for 11: Material transfers

Drum/batch transfers / Dedicated facility **Product characteristics**: Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide extract ventilation to material transfer points and other openings.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Ass occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 12: Roller, spreader, flow application Indoor

Product characteristics : Liquid

Concentration of

Ventilation control

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours

: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

measures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

Contributing scenario controlling worker exposure for 13: Roller, spreader, flow application

Outdoor

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control : Provide extract ve

measures

: Provide extract ventilation to points where emissions occur.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Respiratory protection

Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 14: Manual spraying

Indoor

Product characteristics : Spray

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours

Technical conditions and: Carry out in a vented booth or extracted enclosure.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general : Assumes a good basic standard of occupational hygiene is implemented

occupational hygiene

. Assumes a good basic standard of occupational hygiene is implemented

Date of issue/Date of revision : 12/12/2022

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Use in coatings - Professional

Personal protection

: Wear suitable gloves tested to EN374.

Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial

aerosol release, e.g. spraying.

Contributing scenario controlling worker exposure for 15: Spraying

Manual / Outdoor

Product characteristics

: Spray **Concentration of**

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Personal protection : Wear suitable gloves tested to EN374.

> Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial

aerosol release, e.g. spraying.

Respiratory protection : Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 16: Dipping, immersion and pouring

Indoor

Product characteristics : Liquid

Concentration of

substance in mixture or article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Ventilation control

measures

: Provide extract ventilation to points where emissions occur.

: Covers percentage substance in the product up to 100 %.

Organisational measures to

prevent/limit releases, dispersion and exposure : Avoid manual contact with wet work pieces.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 17: Dipping, immersion and pouring

Outdoor

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

measures at process level (source) to prevent release : Ensure operation is undertaken outdoors.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Personal protection

: Wear suitable gloves tested to EN374.

Use in coatings - Professional

Contributing scenario controlling worker exposure for 18: Laboratory activities

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general :

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 19: Hand application - finger paints, pastels, adhesives

Indoor

Product characteristics: Liquid

Concentration of

substance in mixture or

article
Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

: Covers percentage substance in the product up to 100 %.

use/exposure

Ventilation control

: Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

measures

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Personal protection : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic'

employee training.

Contributing scenario controlling worker exposure for 20: Hand application - fingerpaints, pastels, adhesives

Outdoor

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Personal protection : Wear chemical-resistant gloves (tested to EN374) in combination with 'basic'

employee training.

Respiratory protection: Wear a respirator conforming to EN140 with type A filter or better.

Contributing scenario controlling worker exposure for 21: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

: Drain down system prior to equipment break-in or maintenance.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Use in coatings - Professional

Contributing scenario controlling worker exposure for 22: Storage

Product characteristics

: Liquid

Concentration of

. Liquiu

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

: Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 8.3b.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Filling/preparation of equipment from drums or containers.

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Preparation of material for application

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: Film formation - air drying

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Film formation

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Preparation of material for application (Indoor)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Preparation of material for application (Outdoor)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Material transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 11: Material transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 12: Roller, spreader, flow application

Exposure assessment (human):

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 13: Roller, spreader, flow application

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 14: Manual spraying

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 15: Spraying

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 16: Dipping, immersion and pouring

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 17: Dipping, immersion and pouring

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 18: Laboratory activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 19: Hand application - finger paints, pastels, adhesives

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 20: Hand application - fingerpaints, pastels, adhesives

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 21: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 22: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

EXXONMOBIL™ DIPE

Use in coatings - Professional

Environment : Not available

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use as a fuel - Professional

List of use descriptors

: Identified use name: Use as a fuel - Professional

Process Category: PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC16

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

scenarios

Environmental contributing: **General exposures** - ERC09a, ERC09b

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC08a, PROC08b, PROC16 Bulk transfers - PROC08b Drum/batch transfers - PROC08b

Refuelling - PROC08b

General exposures (closed systems) - PROC01, PROC02, PROC03

Use as a fuel - PROC16

Equipment cleaning and maintenance - PROC08a

Storage - PROC01

Processes and activities covered by the exposure

scenario

Covers the use as a fuel (or fuel additive) and includes activities associated with its

transfer, use, equipment maintenance and handling of waste.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 200 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting

environmental exposure

: Not applicable.

Technical conditions and measures at process level

: Not applicable.

(source) to prevent release

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

to soil

prevent/limit release from

site

Organisational measures to : Prevent discharge of undissolved substance to or recover from onsite wastewater.

EXXONMOBIL™ DIPE Use as a fuel - Professional

Conditions and measures : Not applicable.

related to sewage treatment

plant

Conditions and measures

related to external treatment of waste for disposal

: Not applicable.

Conditions and measures related to external recovery

: Not applicable.

of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/ bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation Advice on general

occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Bulk transfers

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 4: Drum/batch transfers

Product characteristics Liquid

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

: Use drum pumps or carefully pour from container.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Use as a fuel - Professional

Contributing scenario controlling worker exposure for 5: Refuelling

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Technical conditions and : Use drum pumps or carefully pour from container.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: General exposures (closed systems)

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Use as a fuel

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: Equipment cleaning and maintenance

Product characteristics : Liquid

Concentration of substance in mixture or : Covers percentage substance in the product up to 100 %.

article

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and

: Drain down system prior to equipment break-in or maintenance.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Use as a fuel - Professional

Contributing scenario controlling worker exposure for 9: Storage

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

: Store substance within a closed system.

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented. ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 9.12b.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: Bulk transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 5: Refuelling

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE

Use as a fuel - Professional

Exposure estimation and reference to its source - Workers: 7: Use as a fuel

Exposure assessment (human):

otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

: The ECETOC TRA tool has been used to estimate workplace exposures unless

Exposure estimation and reference to its source - Workers: 8: Equipment cleaning and maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Storage

Exposure assessment (human):

Health

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not applicable.

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Functional fluids - Professional

List of use descriptors

: Identified use name: Functional fluids - Professional

Process Category: PROC01, PROC02, PROC03, PROC08a, PROC09, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

scenarios

Environmental contributing: **General exposures** - ERC09a, ERC09b

Health Contributing

scenarios

: General measures applicable to all activities - PROC01, PROC02, PROC03,

PROC08a, PROC09, PROC20 Drum/batch transfers - PROC08a

Transfer from/pouring from containers - PROC09

Filling/preparation of equipment from drums or containers. - PROC09 General exposures (closed systems) - PROC01, PROC02, PROC03 Operation of equipment containing engine oils and similar - PROC20

Remanufacture of reject articles - PROC09 Equipment maintenance - PROC08a Storage - PROC01, PROC02

Processes and activities covered by the exposure

scenario

: Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in closed professional equipment including incidental exposures during

maintenance and related material transfers.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting environmental exposure

: Not applicable.

Technical conditions and measures at process level

: Not applicable.

(source) to prevent release

Technical on-site conditions and measures to reduce or limit discharges,

air emissions and releases

to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

prevent/limit release from

site

Organisational measures to : Prevent discharge of undissolved substance to or recover from onsite wastewater.

Date of issue/Date of revision : 12/12/2022

77/110

Conditions and measures : Not applicable.

plant

Conditions and measures

related to sewage treatment

related to external treatment of waste for

: Not applicable.

disposal

Conditions and measures related to external recovery

: Not applicable.

of waste

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Functional fluids - Professional

Contributing scenario controlling worker exposure for 3: Drum/batch transfers

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

substance in mixture or

article

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level

: Use drum pumps or carefully pour from container.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 4: Transfer from/pouring from containers

Product characteristics : Liquid

Concentration of : Covers percentage substance in the product up to 100 %.

Conditions and measures related to personal protection, hygiene and health evaluation

substance in mixture or

article

Frequency and duration of : Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Ventilation control

: Fill containers/cans at dedicated fill points supplied with local extract ventilation.

measures

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Functional fluids - Professional

Contributing scenario controlling worker exposure for 5: Filling/preparation of equipment from drums or containers.

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

article

article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Technical conditions and : Use drum pumps or carefully pour from container.

measures at process level (source) to prevent release

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 6: General exposures (closed systems)

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release

: Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 7: Operation of equipment containing engine oils and similar

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Other conditions affecting workers exposure

: Operation is carried out at elevated temperature (> 20°C above ambient

temperature)

Technical conditions and measures at process level (source) to prevent release : Handle substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 8: Remanufacture of reject articles

Product characteristics : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

article
Frequency and duration of

: Avoid carrying out activities involving exposure for more than 4 hours

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

EXXONMOBIL™ DIPE Functional fluids - Professional

Contributing scenario controlling worker exposure for 9: Equipment maintenance

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of use/exposure

Technical conditions and measures at process level (source) to prevent release : Covers daily exposures up to 8 hours (unless stated differently)

: Drain down system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 10: Storage

Product characteristics : Liquid

Concentration of

substance in mixture or article

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

: Covers daily exposures up to 8 hours (unless stated differently)

Technical conditions and measures at process level (source) to prevent release : Store substance within a closed system.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 9.13b.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 3: Drum/batch transfers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 4: Transfer from/pouring from containers

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

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EXXONMOBIL™ DIPE Functional fluids - Professional

Exposure estimation and reference to its source - Workers: 5: Filling/preparation of equipment from drums or containers.

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 6: General exposures (closed systems)

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 7: Operation of equipment containing engine oils and similar

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 8: Remanufacture of reject articles

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 9: Equipment maintenance

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Workers: 10: Storage

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not applicable. Health : Available hazard data do no

: Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation.

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Professional

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in laboratories - Professional

List of use descriptors

: Identified use name: Use in laboratories - Professional

Process Category: PROC15 Sector of end use: SU22

Subsequent service life relevant for that use: No.

Environmental contributing:

scenarios

Health Contributing

scenarios

General measures applicable to all activities - PROC15

Laboratory activities - PROC15

Processes and activities covered by the exposure

scenario

: Use of the substance within laboratory settings, including material transfers and

equipment cleaning

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 0.1

Frequency and duration of

use

: Continuous release

Emission days (days per year): 20 days per year

Environment factors not influenced by risk

management

: Not applicable.

: Not applicable.

: Not applicable.

Other conditions affecting

environmental exposure

Technical conditions and

measures at process level

(source) to prevent release

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases

to soil

: If discharging to domestic sewage treatment plant, additional onsite wastewater

treatment required

Soil emission controls are not applicable as there is no direct release to soil.

Volatile compounds subject to air emission controls.

Organisational measures to prevent/limit release from

: Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment

plant

Conditions and measures related to external treatment of waste for

disposal

: Not applicable.

: Not applicable.

Use in laboratories - Professional

Conditions and measures related to external recovery of waste : Not applicable.

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances, such as flammability or explosiveness can be controlled by implementing risk management measures at the workplace. It is recommended to follow the Dangerous Substances and Explosion Atmospheres Regulations (DSEAR) and The Equipment and Protective Systems Intended for use in Potentially Explosive Atmosphere Regulations (EPS). Based on the implementation of a selection of handling and storage risk management measures for the identified uses, the risk can be regarded as controlled to an acceptable level.

Use in contained systems. Avoid all possible sources of ignition (spark or flame). - No smoking. Handle in well ventilated area to prevent formation of explosive atmosphere. Use equipment and protective systems approved for flammable substances. Restrict line velocity during pumping to avoid generation of electrostatic discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Refer to relevant technical standards / EU regulations / national regulations. Review SDS for additional advice..

Product characteristics

: Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

article

Frequency and duration of

: Covers daily exposures up to 8 hours (unless stated differently)

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Contributing scenario controlling worker exposure for 3: Laboratory activities

Product characteristics

s : Liquid

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100 %.

Frequency and duration of

use/exposure

article

: Covers daily exposures up to 8 hours (unless stated differently)

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Assumes a good basic standard of occupational hygiene is implemented

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 8.17.v1

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE

Use in laboratories - Professional

Exposure estimation and reference to its source - Workers: 3: Laboratory activities

Exposure assessment (human):

: The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

 Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk management measures are based on qualitative risk characterisation. Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.



Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mono-constituent substance

Code : 1161092 13528078 : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use in coatings - Consumer

List of use descriptors

: Identified use name: Use in coatings - Consumer

Sector of end use: SU21

Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d

Market sector by type of chemical product: PC01, PC04, PC08, PC09a, PC09b,

PC09c, PC15, PC18, PC23, PC24, PC31, PC34

Environmental contributing: General exposures - ERC08a, ERC08d

scenarios

Health Contributing

scenarios

: General measures applicable to all activities - PC01, PC04, PC08, PC09a,

PC09b, PC09c, PC15, PC18, PC23, PC24, PC31, PC34

Glues, hobby use - PC01

Glues DIY-use (carpet glue, tile glue, wood parquet glue) - PC01

Glue from spray - PC01

Sealants - PC01

Washing car window - PC04 Pouring into radiator - PC04

Lock de-icer - PC04

Laundry and dish-washing products - PC08

Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners,

glass cleaners, carpet cleaners, metal cleaners) - PC08

Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass

cleaners) - PC08

Water-borne latex wall paint - PC09a

Solvent-rich, high-solid, water-borne paint - PC09a

Aerosol spray can - PC09a

Removers (paint-, glue-, wall paper-, sealant-remover) - PC09a

Fillers and putty - PC09b

Plasters and floor equalisers - PC09b

Modelling clay - PC09b Finger paints - PC09c

Non-metal-surface treatment products: Waterborne latex wall paint - PC15

Non-metal-surface treatment products: waterborne paint - PC15 Non-metal-surface treatment products: aerosol sprays - PC15 Non-metal-surface treatment products: Removers - PC15

Ink and toners - PC18

Polishes, wax / cream (floor, furniture, shoes) - PC23

Polishes, spray (furniture, shoes) - PC23

Liquid - PC24 Pastes - PC24 Sprays - PC24

Polishes, wax/cream (floor, furniture, shoes) - PC31

Polishes, spray (furniture, shoes) - PC31 Textile dyes and impregnating products - PC34

Processes and activities covered by the exposure scenario

: Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

Date of issue/Date of revision : 12/12/2022

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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Not applicable.

Amounts used : Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 0.1

Maximum daily site tonnage (kg/day): Not applicable.

Frequency and duration of

: Not applicable.

Environment factors not

influenced by risk management

: Not applicable.

Other conditions affecting

environmental exposure

: Not applicable.

Conditions and measures related to sewage treatment

plant

: Not applicable.

Conditions and measures

related to external treatment of waste for : Not applicable.

disposal

Conditions and measures related to external recovery

: Not applicable.

of waste

Contributing scenario controlling consumer exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Review SDS for additional advice..

Product characteristics : Liquid

Amounts used : Not applicable. Frequency and duration of : Not applicable.

use/exposure

Other given operational conditions affecting consumers exposure

: Not applicable.

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable. occupational hygiene

Contributing scenario controlling consumer exposure for 3: Glues, hobby use

Adhesives, sealants

Product characteristics : Liquid

Concentration of : Covers concentrations up to 30 %

substance in mixture or

article

Amounts used

: Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 9 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Use in coatings - Consumer

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 4: Glues DIY-use (carpet glue, tile glue, wood parquet glue)

Adhesives, sealants

Product characteristics : Liquid

Concentration of substance in mixture or

substance in mixture or article

Amounts used

: Covers skin contact area up to 110 cm²

For each use event, covers use amounts up to 6 390 g

Covers use in room size of 20 m³

: Covers concentrations up to 30 %

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 1 days per year

Covers use under typical household ventilation.

Covers exposure up to 6 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 5: Glue from spray

Adhesives, sealants

Product characteristics : Liquid

Concentration of substance in mixture or

article

Amounts used

use/exposure

: Covers concentrations up to 30 %

: Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85.05 g

Covers use in room size of 20 m³

: Covers use up to 1 times per day
Covers use up to 6 days per year

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Other given operational conditions affecting consumers exposure

Frequency and duration of

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 6: Sealants

Adhesives, sealants

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 30 %

Amounts used : Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 75 g

Covers use in room size of 20 m³

Date of issue/Date of revision : 12/12/2022

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Use in coatings - Consumer

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 1 hour(s)

Other given operational conditions affecting consumers exposure

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 7: Washing car window

Anti-freeze and de-icing products

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 1 %

Amounts used : Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 0.5 g

Covers use in room size of 34 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.02 hour(s)

Covers use at ambient temperatures.

Other given operational conditions affecting

conditions affecting consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 8: Pouring into radiator

Anti-freeze and de-icing products

Product characteristics : Liquid

Concentration of

substance in mixture or

article

Amounts used

: Covers concentrations up to 10 %

: Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 2 000 g

Covers use in room size of $34\ m^3$

Frequency and duration of use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 9: Lock de-icer

Anti-freeze and de-icing products

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 214.4 cm²

For each use event, covers use amounts up to 4 g

Covers use in room size of 34 m³

Date of issue/Date of revision : 12/12/2022

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Use in coatings - Consumer

Frequency and duration of use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.25 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures. Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 10: Laundry and dish-washing products

Biocidal products (Disinfectants, Pest control) **Product characteristics** : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 5 %

Amounts used : Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 15 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.5 hour(s) : Covers use at ambient temperatures.

Other given operational conditions affecting consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 11: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Biocidal products (Disinfectants, Pest control) Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 5 %

Amounts used Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 27 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 128 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s) : Covers use at ambient temperatures.

Other given operational conditions affecting

consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene Contributing scenario controlling consumer exposure for 12: Cleaners, trigger sprays (all purpose cleaners,

sanitary products, glass cleaners)

Biocidal products (Disinfectants, Pest control) **Product characteristics** : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 15 %

EXXONMOBIL™ DIPE Use in coatings - Consumer

Amounts used : Covers skin contact area up to 428 cm²

For each use event, covers use amounts up to 35 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 128 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 13: Water-borne latex wall paint

Coatings and paints, thinners, paint removers

Product characteristics : Liquid

Concentration of substance in mixture or

substance in mixture of article

: Covers concentrations up to 1.5 %

Amounts used : Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 2 760 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 4 days per year

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Other given operational conditions affecting consumers exposure

Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general

occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 14: Solvent-rich, high-solid, water-borne paint

Coatings and paints, thinners, paint removers

Product characteristics : Liquid : Concentration of : Covers concentrations up to 27.5 %

substance in mixture or

article

: Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 744 g Covers use in room size of 20 m³

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 6 days per year

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Other given operational conditions affecting consumers exposure

occupational hygiene

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

Date of issue/Date of revision : 12/12/2022

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Use in coatings - Consumer

Contributing scenario controlling consumer exposure for 15: Aerosol spray can

Coatings and paints, thinners, paint removers **Product characteristics** : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : For each use event, covers use amounts up to 215 g

Frequency and duration of use/exposure

: Covers use up to 1 times per day Covers use up to 2 days per year

Covers use in room size of 34 m3

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.33 hour(s) : Covers use at ambient temperatures.

Other given operational conditions affecting consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 16: Removers (paint-, glue-, wall paper-, sealantremover)

Coatings and paints, thinners, paint removers

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 491 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 3 days per year

Covers use under typical household ventilation.

Covers exposure up to 2 hour(s) : Covers use at ambient temperatures.

Other given operational conditions affecting consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 17: Fillers and putty

Fillers, putties, plasters, modelling clay Product characteristics : Liquid

Concentration of substance in mixture or : Covers concentrations up to 2 %

article

Amounts used : Covers skin contact area up to 35.73 cm²

For each use event, covers use amounts up to 85 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 12 days per year

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable. occupational hygiene

Use in coatings - Consumer

Contributing scenario controlling consumer exposure for 18: Plasters and floor equalisers

Fillers, putties, plasters, modelling clay **Product characteristics** : Liquid

Concentration of

substance in mixture or

article

Amounts used

: Covers concentrations up to 2 %

: Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 13 800 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 12 days per year

Covers use under typical household ventilation.

Covers exposure up to 2 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 19: Modelling clay

Fillers, putties, plasters, modelling clay **Product characteristics**

Concentration of substance in mixture or

article

: Covers concentrations up to 1 %

: Covers skin contact area up to 254.4 cm²

For each use event, covers use amounts up to 13 800 q For each use event, assumes swallowed amount of 1 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 6 hour(s)

Other given operational conditions affecting

consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 20: Finger paints

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

: Covers skin contact area up to 254.4 cm²

For each use event, covers use amounts up to 13 800 g For each use event, assumes swallowed amount of 1.35 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 6 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Use in coatings - Consumer

Contributing scenario controlling consumer exposure for 21: Non-metal-surface treatment products:

Waterborne latex wall paint

Product characteristics : Liquid

Concentration of substance in mixture or

Frequency and duration of

article

use/exposure

Amounts used : Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 2 760 g

Covers use in room size of 20 m3 : Covers use up to 1 times per day Covers use up to 4 days per year

: Covers concentrations up to 1.5 %

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general

occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 22: Non-metal-surface treatment products: waterborne paint

Solvent-rich, high-solid, water-borne paint **Product characteristics** : Liquid

Concentration of substance in mixture or

article

Amounts used

use/exposure

: Covers concentrations up to 27.5 %

: Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 744 g

Covers use in room size of 20 m³ : Covers use up to 1 times per day Covers use up to 6 days per year

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Other given operational conditions affecting consumers exposure

Frequency and duration of

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 23: Non-metal-surface treatment products: aerosol sprays

Product characteristics : Liquid

Concentration of substance in mixture or

article

Amounts used

: Covers concentrations up to 50 %

: Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 215 g

Covers use in room size of 34 m³

Frequency and duration of use/exposure

: Covers use up to 1 times per day Covers use up to 2 days per year

Covers use in a one car garage (34 m³) under typical ventilation.1.5 ach (air

changes per hour)

Covers exposure up to 0.33 hour(s)

Other given operational conditions affecting

consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Use in coatings - Consumer

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Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 24: Non-metal-surface treatment products:

Removers

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 491 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 3 days per year

Covers use under typical household ventilation.

Covers exposure up to 2 hour(s)

Other given operational conditions affecting

consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 25: Ink and toners

Product characteristics : Liquid

Concentration of

substance in mixture or

Frequency and duration of

article

use/exposure

Amounts used : Covers skin contact area up to 71.4 cm²

For each use event, covers use amounts up to 40 g

Covers use in room size of 20 m³ : Covers use up to 1 times per day

: Covers concentrations up to 10 %

Covers use up to 365days per year

Covers use under typical household ventilation.

Covers exposure up to 2.2 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 26: Polishes, wax / cream (floor, furniture, shoes)

Leather treatment products / Impregnation agent / Tanning of leather. / Leather finishing.

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 56 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 29 days per year

Covers use under typical household ventilation.

Covers exposure up to 1.23 hour(s) : Covers use at ambient temperatures.

Other given operational conditions affecting

consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Use in coatings - Consumer

Advice on general occupational hygiene : Not applicable.

: Liquid

Contributing scenario controlling consumer exposure for 27: Polishes, spray (furniture, shoes)

Leather treatment products / Impregnation agent / Tanning of leather. / Leather finishing.

Product characteristics

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 56 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 8 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s) : Covers use at ambient temperatures.

Other given operational

conditions affecting consumers exposure Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 28: Liquid

Lubricants, greases, release products

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 100 %

: Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2 200 g

Covers use in room size of 34 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 4 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers exposure up to 0.17 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general

occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 29: Pastes

Lubricants, greases, release products

Product characteristics

Concentration of substance in mixture or

article

: Covers concentrations up to 20 %

Amounts used : Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 34 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 10 days per year

Covers use under typical household ventilation.

Covers exposure up to 4 hour(s)

Other given operational conditions affecting

consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Use in coatings - Consumer

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 30: Sprays

Lubricants, greases, release products

Product characteristics

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

: Covers skin contact area up to 428.75 cm²

For each use event, covers use amounts up to 73 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 6 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.17 hour(s) : Covers use at ambient temperatures.

Other given operational

conditions affecting consumers exposure Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 31: Polishes, wax/cream (floor, furniture, shoes)

Polishes and wax blends

Product characteristics : Liquid

Concentration of

substance in mixture or

article

Amounts used

: Covers skin contact area up to 430 cm²

: Covers concentrations up to 50 %

For each use event, covers use amounts up to 142 g

Covers use in room size of 20 m3 : Covers use up to 1 times per day

Frequency and duration of

use/exposure

Covers use up to 29 days per year

Covers use under typical household ventilation.

Covers exposure up to 1.23 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 32: Polishes, spray (furniture, shoes)

Polishes and wax blends

Product characteristics : Liquid

Concentration of substance in mixture or

article

: Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 430 cm²

For each use event, covers use amounts up to 35 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 8 days per year

Covers use under typical household ventilation.

Covers exposure up to 0.33 hour(s)

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Use in coatings - Consumer

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 33: Textile dyes and impregnating products

Bleaching aid. / Other processing aids Product characteristics

Concentration of substance in mixture or

article

: Covers concentrations up to 10 %

: Covers skin contact area up to 857.5 cm²

For each use event, covers use amounts up to 115 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 365 days per year

Covers use under typical household ventilation.

Covers exposure up to 1 hour(s)

Other given operational

conditions affecting consumers exposure : Covers use at ambient temperatures. Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented. **ECETOC TRA environment**

Exposure estimation and

reference to its source

: ESVOC SPERC 8.3c.v1

Exposure estimation and reference to its source - Consumers: 2: General measures applicable to all activities

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 3: Glues, hobby use

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 4: Glues DIY-use (carpet glue, tile glue, wood

parquet glue)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

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Use in coatings - Consumer

Exposure estimation and reference to its source - Consumers: 5: Glue from spray

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 6: Sealants

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 7: Washing car window

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 8: Pouring into radiator

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 9: Lock de-icer

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 10: Laundry and dish-washing products

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 11: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 12: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 13: Water-borne latex wall paint

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Use in coatings - Consumer

Exposure estimation and reference to its source - Consumers: 14: Solvent-rich, high-solid, water-borne paint

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 15: Aerosol spray can

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 16: Removers (paint-, glue-, wall paper-, sealant-

remover)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 17: Fillers and putty

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 18: Plasters and floor equalisers

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 19: Modelling clay

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 20: Finger paints

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 21: Non-metal-surface treatment products: Waterborne latex wall paint

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Use in coatings - Consumer

Exposure estimation and reference to its source - Consumers: 22: Non-metal-surface treatment products:

waterborne paint

Exposure assessment

(human):

Exposure estimation and reference to its source

: ECETOC TRA, consumer

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 23: Non-metal-surface treatment products:

aerosol sprays

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 24: Non-metal-surface treatment products:

Removers

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 25: Ink and toners

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 26: Polishes, wax / cream (floor, furniture,

shoes)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 27: Polishes, spray (furniture, shoes)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 28: Liquid

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 29: Pastes

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Use in coatings - Consumer

Exposure estimation and reference to its source - Consumers: 30: Sprays

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and :

reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 31: Polishes, wax/cream (floor, furniture, shoes)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 32: Polishes, spray (furniture, shoes)

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 33: Textile dyes and impregnating products

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment

: Not applicable.

Health

Where other risk management measures/operational conditions are adopted, then

users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment

: Not available.

Health

: Not available.

Date of issue/Date of revision : 12/12/2022 101/110



Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Use as a fuel - Consumer

List of use descriptors

: Identified use name: Use as a fuel - Consumer

Sector of end use: SU21

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b Market sector by type of chemical product: PC13

scenarios

Environmental contributing : General exposures - ERC09a, ERC09b

Health Contributing

scenarios

General measures applicable to all activities - PC13

Liquid: automotive refuelling - PC13 Liquid: Scooter refuelling - PC13 Liquid: garden equipment - use - PC13 Liquid: garden equipment - refuelling - PC13

Liquid: lamp oil - PC13

Liquid: home space heater fuel - PC13

Processes and activities covered by the exposure

scenario

: Covers consumer uses in liquid fuels.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Predominantly hydrophobic Substance is complex UVCB.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 0.1

Maximum daily site tonnage (kg/day): Not applicable. Regional use tonnage (tonnes/year): 0.1 tonnes/year

Frequency and duration of

use

Continuous release

Emission days (days per year): 300 days per year

Environment factors not influenced by risk

management

: Not applicable.

Other conditions affecting

environmental exposure

: Not applicable.

Conditions and measures

related to sewage treatment

plant

: Not applicable.

Conditions and measures related to external

treatment of waste for

: Not applicable.

disposal

Conditions and measures related to external recovery

of waste

: Not applicable.

EXXONMOBIL™ DIPE Use as a fuel - Consumer

Contributing scenario controlling consumer exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Review SDS for additional advice..

Product characteristics: Liquid

Amounts used : Not applicable.

Frequency and duration of : Not applicable.

use/exposure

Other given operational conditions affecting consumers exposure

: Not applicable.

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 3: Liquid: automotive refuelling

Product characteristics : Liquid

Concentration of : Covers concentrations up to 100 %

substance in mixture or

article

: Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 37 500 g

Covers use in room size of 100 m³

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 52 days per year

Covers outdoor use.

Covers exposure up to 0.05 hour(s)

Covers use under typical household ventilation.

Other given operational conditions affecting

conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 4: Liquid: Scooter refuelling

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 100 %

: Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 3 750 g Covers use in room size of 100 m³

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 52 days per year

Covers outdoor use.

Covers exposure up to 0.03 hour(s)

Covers use under typical household ventilation.

Other given operational conditions affecting

: Covers use at ambient temperatures.

conditions affecting Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure **consumers exposure**

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

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EXXONMOBIL™ DIPE Use as a fuel - Consumer

Contributing scenario controlling consumer exposure for 5: Liquid: garden equipment - use

Product characteristics : Liquid

Concentration of : Covers concentrations up to 100 %

substance in mixture or

article

Amounts used : For each use event, covers use amounts up to 750 g

Covers use in room size of 100 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 26 days per year

Covers outdoor use.

Covers exposure up to 2 hour(s)

Covers use under typical household ventilation.

Other given operational conditions affecting

consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 6: Liquid: garden equipment - refuelling

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 100 %

For each use event, covers use amounts up to 750 g

Covers use in room size of 34 m3

: Covers skin contact area up to 420 cm²

Frequency and duration of

use/exposure

Amounts used

: Covers use up to 1 times per day Covers use up to 26 days per year Covers exposure up to 0.03 hour(s)

Covers use in a one car garage (34 m³) under typical ventilation.

Other given operational

conditions affecting consumers exposure : Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general

occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 7: Liquid: lamp oil

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 100 %

Amounts used : Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 100 g

Covers use in room size of 20 m3

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 52 days per year Covers exposure up to 0.01 hour(s)

Covers use under typical household ventilation.

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable. occupational hygiene

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EXXONMOBIL™ DIPE Use as a fuel - Consumer

Contributing scenario controlling consumer exposure for 8: Liquid: home space heater fuel

Product characteristics : Liquid

Concentration of substance in mixture or

substance in mixture

article

: Covers concentrations up to 100 %

Amounts used : Covers skin contact area up to 210 cm²

For each use event, covers use amounts up to 3 000 g

Covers use in room size of 20 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 365 days per year Covers exposure up to 0.03 hour(s)

Covers use under typical household ventilation.

Other given operational conditions affecting consumers exposure

: Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Section 3 - Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment: 1: General exposures

: Not applicable.

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

ECETOC TRA environment

Exposure estimation and reference to its source

: ESVOC SPERC 9.12c.v1

Exposure estimation and reference to its source - Consumers: 2: General measures applicable to all activities

Exposure assessment

(human):

Website:

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 3: Liquid: automotive refuelling

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 4: Liquid: Scooter refuelling

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 5: Liquid: garden equipment - use

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

EXXONMOBIL™ DIPE Use as a fuel - Consumer

Exposure estimation and reference to its source - Consumers: 6: Liquid: garden equipment - refuelling

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 7: Liquid: lamp oil

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 8: Liquid: home space heater fuel

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not applicable.

Health : Where other risk management measures/operational conditions are adopted, then

users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available. Health Not available.



Annex to the extended Safety Data Sheet (eSDS)

Consumer

Identification of the substance or mixture

Product definition : Mono-constituent substance

: 1161092 13528078 Code : EXXONMOBIL™ DIPE **Product name**

Section 1 - Title

Short title of the exposure

scenario

: Functional fluids - Consumer

List of use descriptors

: Identified use name: Functional fluids - Consumer

Sector of end use: SU21

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b Market sector by type of chemical product: PC16, PC17

scenarios

Environmental contributing: **General exposures** - ERC09a, ERC09b

Health Contributing

scenarios

General measures applicable to all activities - PC16, PC17

Heat transfer fluids - PC16 Hydraulic fluids - PC17

Processes and activities covered by the exposure

scenario

: Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids,

refrigerants

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics

: Not applicable.

Amounts used

: Annual site tonnage (tonnes/year): 100 tonnes/year

Fraction of EU tonnage used in region: 0.1

Maximum daily site tonnage (kg/day): Not applicable. Regional use tonnage (tonnes/year): 100 tonnes/year

Frequency and duration of

use

: Not applicable.

Environment factors not

influenced by risk

management

: Not applicable.

Other conditions affecting

environmental exposure

: Not applicable.

Conditions and measures

related to sewage treatment

plant

: Not applicable.

Conditions and measures

related to external treatment of waste for

disposal

: Not applicable.

Conditions and measures

related to external recovery

: Not applicable.

of waste

EXXONMOBIL™ DIPE Functional fluids - Consumer

Contributing scenario controlling consumer exposure for 2: General measures applicable to all activities

General measures (flammability)

Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For flammable substances a selection of the following measures need to be implemented to control unintended ignition of flammable substances. These measures are expected to be suitable to prevent minor accidents which might occur during consumer use. Based on the implementation of a selection of handling and storage risk management measures for the identified uses, it is anticipated that there is no immediate concern as the risk should be controlled to an acceptable level. Use only with adequate ventilation. Keep away from sources of ignition - No smoking. Review SDS for additional advice..

Product characteristics : Liquid

Amounts used : Not applicable. Frequency and duration of : Not applicable.

use/exposure

Other given operational

conditions affecting consumers exposure : Not applicable.

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Contributing scenario controlling consumer exposure for 3: Heat transfer fluids

Product characteristics : Liquid

Concentration of : Covers concentrations up to 100 %

substance in mixture or

article

Amounts used : Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2 200 g

Covers use in room size of 34 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 4 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use up to 0.17 hour(s)

Other given operational conditions affecting

: Covers use at ambient temperatures.

consumers exposure

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene

: Not applicable.

Contributing scenario controlling consumer exposure for 4: Hydraulic fluids

Product characteristics : Liquid

Concentration of

substance in mixture or

article

: Covers concentrations up to 100 %

Amounts used : Covers skin contact area up to 468 cm²

For each use event, covers use amounts up to 2 200 g

Covers use in room size of 34 m³

Frequency and duration of

use/exposure

: Covers use up to 1 times per day Covers use up to 4 days per year

Covers use in a one car garage (34 m³) under typical ventilation.

Covers use up to 0.17 hour(s)

Other given operational

conditions affecting consumers exposure : Covers use at ambient temperatures.

Liquid, vapour pressure > 10 kPa at Standard Temperature and Pressure

Conditions and measures related to personal protection and hygiene

Advice on general : Not applicable.

occupational hygiene

Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

ECETOC TRA environment : ESVOC SPERC 9.13c.v1

Exposure estimation and reference to its source

reference to its source

Exposure estimation and reference to its source - Consumers: 2: General measures applicable to all activities

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 3: Heat transfer fluids

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management measures given in section 2 are implemented.

Exposure estimation and reference to its source - Consumers: 4: Hydraulic fluids

Exposure assessment

(human):

: ECETOC TRA, consumer

Exposure estimation and reference to its source

: Predicted exposures are not expected to exceed the applicable exposure limits (given in section 8 of the SDS) when the operational conditions/risk management

measures given in section 2 are implemented.

Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment : Not applicable.

Health: Where other risk management measures/operational conditions are adopted, then

users should ensure that risks are managed to at least equivalent levels.

Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Date of issue/Date of revision : 12/12/2022 **109/110**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Poland

 $EXXONMOBIL^{ ext{TM}}$ DIPE

Date of issue/Date of revision : 9 August Date of previous issue : No previous edition Version : 1 110/110 2023