

SAFETY DATA SHEET



EXXSOL™ DSP 30/75 S

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

1.1 Product identifier

Product name : EXXSOL™ DSP 30/75 S
UFI : QHDS-71YF-A00U-2C89
Product description : Aliphatic Hydrocarbon

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

Intended Use : Solvent

Identified uses
Manufacture of substance Distribution of substance Formulation and (re)packing of substances and mixtures Use in coatings - Industrial Use in cleaning agents - Industrial Functional fluids - Industrial Use in laboratories - Industrial Use in cleaning agents - Professional Functional fluids - Professional Use in laboratories - Professional Use in coatings - Consumer Use in cleaning agents - 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** : (+32)70 245 245
**24 Hour Emergency
Telephone** : +32 2 808 32 37 / +1-703-527-3887 (CHEMTREC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225
Skin Irrit. 2, H315
STOT SE 3, H336
Asp. Tox. 1, H304
Aquatic Chronic 2, H411

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.

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

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.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.

Response

: P301 + P331, P310 - IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
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.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.
P391 - Collect spillage.

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.

Contains

: pentane; Hydrocarbons, C6, isoalkanes, <5% n-hexane; Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane and cyclohexane

Supplemental label elements

: Not applicable.

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

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Type
pentane	REACH #: 01-2119459286-30 EC: 203-692-4 CAS: 109-66-0	≥50 - ≤75	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1] [2]
Hydrocarbons, C6, isoalkanes, <5% n-hexane	REACH #: 01-2119484651-34 EC: 931-254-9 CAS: -	≥25 - ≤50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1] [2]
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	REACH #: 01-2119486291-36 EC: 926-605-8 CAS: -	≥10 - ≤25	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
cyclohexane	REACH #: 01-2119463273-41 EC: 203-806-2 CAS: 110-82-7	≥10 - <25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
n-hexane	EC: 203-777-6 CAS: 110-54-3	<3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 (peripheral nervous system) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	STOT RE 2, H373: C ≥ 5%	[1] [2]

SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

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

Nota :

Note: Any entry in the EC# column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

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. |
| 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. Wash clothing before reuse. Clean shoes thoroughly before reuse. Continue to rinse for at least 10 minutes. Get medical attention. |
| Ingestion | : Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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
Numbness, muscle cramps, weakness and paralysis that may be delayed. |

SECTION 4: First aid measures

- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. This material, or a component, may be associated with cardiac sensitization following very high exposures (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine. Administration of such substances should be avoided.
- 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Incomplete combustion products, Oxides of carbon, Smoke, Fume

5.3 Advice for firefighters

- 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 mode.

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

SECTION 6: Accidental release measures

- 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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.

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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not swallow. Avoid breathing vapour or mist. Avoid release to the environment. 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

SECTION 7: Handling and storage

- 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.
- Transport Temperature** : 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

Category	Notification and MAPP threshold	Safety report threshold
P5c E2	5000 tonnes 200 tonnes	50000 tonnes 500 tonnes

Storage Temperature : Ambient

Storage Pressure : Ambient

**Suitable Containers/
Packing** : Drums, Tank Trucks, Bulk Liquid Container (BLC), Barges, Railcars, Tank Cars

**Suitable Materials and
Coatings** : Carbon Steel, Stainless Steel, polyethylene, polypropylene, Teflon, Polyester

**Unsuitable Materials and
Coatings** : Natural Rubber, butyl rubber, Ethylene-propylene-diene monomer (EPDM), Polystyrene

7.3 Specific end use(s)

Recommendations : Not available.

**Industrial sector specific
solutions** : Not available.

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

SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Result
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SECTION 8: Exposure controls/personal protection

pentane	<p>DNEL - General population - Long term - Inhalation 643 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Dermal 432 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 214 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 3000 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Oral 214 mg/kg bw/day <u>Effects</u>: Systemic</p>
Hydrocarbons, C6, isoalkanes, <5% n-hexane	<p>DNEL - Workers - Long term - Dermal 13964 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Inhalation 1137 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 5306 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 1377 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Oral 1301 mg/kg bw/day <u>Effects</u>: Systemic</p>
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	<p>DNEL - General population - Long term - Oral 1301 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Dermal 13964 mg/kg bw/day <u>Effects</u>: Systemic</p> <p>DNEL - Workers - Long term - Inhalation 5306 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Inhalation 1131 mg/m³ <u>Effects</u>: Systemic</p> <p>DNEL - General population - Long term - Dermal 1377 mg/kg bw/day <u>Effects</u>: Systemic</p>
cyclohexane	<p>DNEL - Workers - Long term - Dermal 2016 mg/kg bw/day</p>

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SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - General population - Long term - Oral
59.4 mg/kg bw/day
Effects: Systemic

DNEL - Workers - Long term - Inhalation
700 mg/m³
Effects: Systemic

DNEL - General population - Long term - Dermal
1186 mg/kg bw/day
Effects: Systemic

DNEL - General population - Long term - Inhalation
206 mg/m³
Effects: Systemic

PNECs

Product/ingredient name	Result
pentane	Fresh water sediment 1.2 mg/kg dwt
	Marine water sediments 1.2 mg/kg dwt
	Fresh water 0.23 mg/l
	Marine water 0.23 mg/l
	Soil 0.55 mg/kg
	Sewage treatment plant 3.6 mg/l
cyclohexane	Fresh water 0.207 mg/l
	Sewage treatment plant 3.24 mg/l
	Marine water 0.207 mg/l
	Fresh water sediment 3.627 mg/kg dwt
	Soil 2.99 mg/kg

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.
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SECTION 8: Exposure controls/personal protection

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.

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. > 8 hours (breakthrough time): Nitrile, minimum 0.38 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. Recommended: organic vapour filter (Type AX)

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

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 : Slight

SECTION 9: Physical and chemical properties

Odour threshold	: Not available.
pH	: Not applicable.
Melting point/freezing point	: Not available.
Boiling point or initial boiling point and boiling range	: 36 to 83°C (96.8 to 181.4°F) [ASTM D1078]
Flash point	: Closed cup: -43°C (-45.4°F) [Calculated]
Evaporation rate	: 30 (butyl acetate = 1) [In-house method ,]
Flammability	: Flammable liquids - Category 2
Lower and upper explosion limit	: Lower: 1.3% [Extrapolated] Upper: 8%
Vapour pressure	: 285.02 mm Hg [20 °C] [Calculated]
Relative vapour density	: 2.7 [Air = 1] [In-house method ,]
Relative density	: 0.67 [Calculated]
Density	: 0.67 g/cm³ [15°C (59°F)] [ISO 12185]
Solubility in water	: Negligible
Partition coefficient n-octanol/water (log Pow)	: <4 [Estimated]
Auto-ignition temperature	: 274°C (525.2°F) [Extrapolated]
Decomposition temperature	: Not applicable.
Viscosity	: 0.4 cSt [20 °C]
Molecular weight	: 78

Particle characteristics

Median particle size	: Not applicable.
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9.2 Other information

Pour point	: <-20°C [Calculated]
Hygroscopic	: No
Coefficient of Thermal Expansion	: 0.0015 per Deg C

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.
10.5 Incompatible materials	: Reactive or incompatible with the following materials:.,oxidising materials,Strong oxidisers
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
EXXSOL™ DSP 30/75 S	Rabbit - Dermal - LD50 >3350 mg/kg
	Rat - Oral - LD50 >5000 mg/kg
	Rat - Inhalation - LC50 Vapour >20 mg/l [4 hours]

Conclusion/Summary

- Inhalation** : Minimally Toxic. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 403
- Dermal** : Minimally Toxic. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 402
- Oral** : Minimally Toxic. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 401

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary

- Skin** : Irritating to the skin. Data available. Based on test data for structurally similar materials. 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 structurally similar materials. Test(s) equivalent or similar to OECD Guideline 405
- Respiratory** : Negligible hazard at ambient/normal handling temperatures. No end point data for material.

Respiratory or skin sensitization

Conclusion/Summary

- Skin** : Not expected to be a skin sensitizer. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 406 429
- Respiratory** : Not expected to be a respiratory sensitizer. No end point data for material.

Mutagenicity

Conclusion/Summary

- : Not expected to be a germ cell mutagen. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 471 473 474 475 476

Carcinogenicity

Conclusion/Summary

- : Not expected to cause cancer. No end point data for material.

Reproductive toxicity

Conclusion/Summary

- : May damage fertility. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 414 416

Specific target organ toxicity (single exposure)

Conclusion/Summary

- : May cause drowsiness or dizziness. No end point data for material. Based on assessment of the components.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
EXXSOL™ DSP 30/75 S	Not applicable.	-

SECTION 11: Toxicological information

Conclusion/Summary

: Not expected to cause organ damage from prolonged or repeated exposure. Data available. Based on test data for structurally similar materials. Test(s) equivalent or similar to OECD Guideline 413

Aspiration hazard

Product/ingredient name	Result
EXXSOL™ DSP 30/75 S	Category 1

Conclusion/Summary

: May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material. Data available. Based on test data for the material.

Information on likely routes of exposure

: Not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Contains

: N-HEXANE: Prolonged and/or repeated exposures to n-Hexane can cause progressive and potentially irreversible damage to the peripheral nervous system (e. g. fingers, feet, arms, legs, etc.). Simultaneous exposure to Methyl Ethyl Ketone (MEK) or Methyl Isobutyl Ketone (MIBK) and n-Hexane can potentiate the risk of adverse effects from n-Hexane on the peripheral nervous system. n-Hexane has been shown to cause testicular damage at high doses in male rats. The relevance of this effect for humans is unknown.

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. Exposure to this material, or one of its components, in situations where there is the potential for high levels, such as in confined spaces or with abuse, may result in abnormal heart rhythm (arrhythmia). High-level exposure to hydrocarbons (above occupational exposure limits) may initiate arrhythmia in a worker that is undergoing stress or is taking a heart-stimulating substance such as epinephrine, a nasal decongestant, or an asthma or cardiovascular drug. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

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	Result
EXXSOL™ DSP 30/75 S	Acute - LC50 Fish - <i>Oncorhynchus mykiss</i> 4.26 mg/l - data for similar materials [96 hours]
	Acute - EC50 daphnia - <i>Daphnia magna</i> 2.7 mg/l - data for similar materials [48 hours]
	Acute - EC50 Algae - <i>Pseudokirchneriella subcapitata</i> 10.7 mg/l - data for similar materials [72 hours]
	Acute - NOEC

EXXSOL™ DSP 30/75 S

Section 12. Ecological information

Algae - *Pseudokirchneriella subcapitata*
7.51 mg/l - data for similar materials [72 hours]

Conclusion/Summary

Acute toxicity : Toxic to aquatic life.
Chronic toxicity : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Result
EXXSOL™ DSP 30/75 S	Ready Biodegradability >60% [28 days]

Biodegradability : Material -- Available OECD 301F biodegradation data indicate that material is readily biodegradable (=60% in 28 days).
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

Not determined.

12.4 Mobility in soil

Product/ingredient name	logKoc	Koc
pentane	1.5	34.1828
cyclohexane	2	96.5031
n-hexane	2.2	165.951

Mobility : Material -- Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
pentane	No	N/A	N/A	No	N/A	N/A	N/A
Hydrocarbons, C6, isoalkanes, <5% n-hexane	No	N/A	N/A	No	N/A	N/A	N/A
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	No	N/A	N/A	No	N/A	N/A	N/A
cyclohexane	No	N/A	N/A	No	N/A	N/A	N/A
n-hexane	N/A	N/A	N/A	Yes	N/A	N/A	N/A

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.

Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

Section 12. Ecological information

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

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	UN3295	UN3295	UN3295	UN3295
14.2 UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.
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	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

SECTION 14: Transport information

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Hazard identification number 33 Limited quantity 1 L Special provisions 640D Tunnel code (D/E)
ADN	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Special provisions 640D N2
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-D Flash point -43 °C C.C.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341. Special provisions A3, A324
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.
14.7 Maritime transport in bulk according to IMO instruments	: Not applicable.

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

<u>Annex XIV</u>
None of the components are listed.
<u>Substances of very high concern</u>
None of the components are listed.

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

Other EU regulations

Explosive precursors : Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c E2

National regulations

Inventory list

Australia inventory (AIC) : All components are listed or exempted.

SECTION 15: Regulatory information

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)	: Not determined.
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.

The national inventory listings are based on the CAS number or numbers listed below.

109-66-0; 64742-49-0; 92062-15-2; 68410-97-9

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

Classification	Justification
Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

EXXSOL™ DSP 30/75 S

SECTION 16: Other information

Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Date of issue/ Date of revision : 19 August 2025

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Version : 1.04

Product code : 1166810

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Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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
Environmental contributing scenarios : **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
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 (including marine vessel/barge, road/rail car and bulk container).

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Predominantly hydrophobic
Substance is complex UVCB.
Amounts used : Maximum daily site tonnage (kg/day): 56 960.8733 kg/day
Frequency and duration of use : Continuous release
Emission days (days per year): 300 days per year
Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.05
Release fraction to wastewater from process (initial release prior to RMM): 0.001596
Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 %
Risk from environmental exposure is driven by freshwater.
Treat air emission to provide a typical removal efficiency of: 0 %
Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 72.03 %

Organisational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to municipal sewage treatment plant : Assumed domestic sewage treatment plant flow: 10 000 m³/day
Estimated substance removal from wastewater via municipal sewage treatment: 96.03 %
Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 401 380.2650 kg/day
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %

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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 / 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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): : Hydrocarbon Block Method (Petrorisk)

Exposure estimation and reference to its source : ESVOC SPERC 1.1.v1

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 8: Equipment cleaning and maintenance

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 9: Storage

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.0014177</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.141912493</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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

Environmental contributing scenarios : **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 (closed systems) - PROC08b
Bulk transfers - 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 : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 184.423 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 20 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.001
Release fraction to wastewater from process (initial release prior to RMM): 0.00001

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by freshwater. Treat air emission to provide a typical removal efficiency of: 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %
Organisational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 292 096.085 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 (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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
Technical conditions and measures at process level (source) to prevent release	: Clear transfer lines prior to de-coupling.
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

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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	: 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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):	: Hydrocarbon Block Method (Petrorisk)
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):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 4: General exposures (open systems)	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 5: Process sampling	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 6: Laboratory activities	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

Exposure estimation and reference to its source - Workers: 7: Bulk transfers (closed systems)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.000254108</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.000631378</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

Section 1 - Title

Short title of the exposure scenario : Formulation and (re)packing of substances and mixtures

List of use descriptors : **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

Environmental contributing scenarios : **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 tableting, 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, tableting, 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 : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 6 767.41 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 300 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.025
Release fraction to wastewater from process (initial release prior to RMM): 0.001064

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Date of issue/Date of revision : 7/27/2022

31/110

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by freshwater. Treat air emission to provide a typical removal efficiency of: 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 29.37 %
Organisational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 120 414.0754 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Batch processes at elevated temperatures

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 operational conditions affecting worker exposure	: Operation is carried out at elevated temperature (> 20°C above ambient temperature)
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 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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	: 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 tableting, 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	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Drum and small package filling

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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):	: Hydrocarbon Block Method (Petrisk)
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):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment : Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
Maximum Risk Characterization Ratios for air emissions 0.000837734
Maximum Risk Characterisation Ratios for waste water emissions 0.056201118
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

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.

Annex to the extended Safety Data Sheet (eSDS)

Industrial

Identification of the substance or mixture

Product definition : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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, PROC09, PROC10, PROC13, PROC14, PROC15
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04

Environmental contributing scenarios : **General exposures** - ERC04

Health Contributing scenarios : **General measures applicable to all activities** - PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14, PROC15
General exposures (closed systems) - PROC01, PROC02
Film formation - force drying, stoving and other technologies - PROC02
Mixing operations - PROC03
Film formation - air drying - PROC04
Preparation of material for application - PROC05
Spraying (automatic/robotic) - PROC07
Manual spraying - PROC07
Material transfers - PROC08a, PROC08b, PROC09
Roller, spreader, flow application - PROC10
Dipping, immersion and pouring - PROC13
Laboratory activities - PROC15
Production of preparation or articles by tableting, compression, extrusion or pelletisation - PROC14

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 : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 15 486.52755 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 20 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.98
Release fraction to wastewater from process (initial release prior to RMM): 0.003724

Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by freshwater. Treat air emission to provide a typical removal efficiency of: 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 91.18 %
Organisational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 34 404.02127 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)**Other operational conditions affecting worker exposure** : Assumes use at not more than 20°C above ambient temperature.**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: Film formation - force drying, stoving and other technologies****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 operational conditions affecting worker 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.**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 5: Mixing operations**

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)**Other operational conditions affecting worker exposure** : Assumes use at not more than 20°C above ambient temperature.**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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Spraying (automatic/robotic)

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 : 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Material transfers

Drum/batch transfers / Transfer from/pouring from containers

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Dipping, immersion and pouring

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Production of preparation or articles by tableting, 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 : Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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): : Hydrocarbon Block Method (Petrorisk)

Exposure estimation and reference to its source : ESVOC SPERC 4.3a.v1

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 5: Mixing operations

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 14: Production of preparation or articles by tableting, compression, extrusion or pelletisation

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.0050043</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.450137134</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>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.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

Section 1 - Title

Short title of the exposure scenario : Use in cleaning agents - Industrial

List of use descriptors : **Identified use name:** Use in cleaning agents - Industrial
Process Category: PROC01, PROC02, PROC03, PROC04, PROC07, PROC08a, PROC08b, PROC10, PROC13
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC04

Environmental contributing scenarios : **General exposures** - ERC04

Health Contributing scenarios : **General measures applicable to all activities** - PROC01, PROC02, PROC03, PROC04, PROC07, PROC08a, PROC08b, PROC10, PROC13
Bulk transfers - PROC08a
Automated process with (semi) closed systems - PROC02, PROC03
Application of cleaning products in closed systems - PROC02
Filling/preparation of equipment from drums or containers. - PROC08b
Use in contained batch processes - PROC04
Degreasing small objects in cleaning station - PROC13
Cleaning with low-pressure washers - PROC10
Cleaning with high pressure washers - PROC07
Surface cleaning - PROC10

Processes and activities covered by the exposure scenario : Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 2 079.65 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 20 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 1
Release fraction to wastewater from process (initial release prior to RMM): 0.00001596

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by humans via indirect exposure (primarily inhalation). Treat air emission to provide a typical removal efficiency of: 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %
Organisational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 3 061 719.314 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Automated process with (semi) closed systems

Use in contained systems / 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Application of cleaning products in 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Degreasing small objects in cleaning station

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Cleaning with low-pressure washers

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Cleaning with high pressure washers

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Surface cleaning

Manual

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 operational conditions affecting worker exposure** : Assumes use at not more than 20°C above ambient temperature.**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):** : Hydrocarbon Block Method (Petrisk)**Exposure estimation and reference to its source** : ESVOG SPERC 4.4a.v1**Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities****Exposure assessment (human):** : Not applicable.**Exposure estimation and reference to its source** : Not applicable.**Exposure estimation and reference to its source - Workers: 3: Bulk transfers****Exposure assessment (human):** : Not applicable.**Exposure estimation and reference to its source** : Not applicable.**Exposure estimation and reference to its source - Workers: 4: Automated process with (semi) closed systems****Exposure assessment (human):** : Not applicable.**Exposure estimation and reference to its source** : Not applicable.**Exposure estimation and reference to its source - Workers: 5: Application of cleaning products in closed systems****Exposure assessment (human):** : Not applicable.**Exposure estimation and reference to its source** : Not applicable.**Exposure estimation and reference to its source - Workers: 6: Filling/preparation of equipment from drums or containers.****Exposure assessment (human):** : Not applicable.**Exposure estimation and reference to its source** : Not applicable.

Exposure estimation and reference to its source - Workers: 7: Use in contained batch processes

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 8: Degreasing small objects in cleaning station

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 9: Cleaning with low-pressure washers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 10: Cleaning with high pressure washers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 11: Surface cleaning

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.000679243</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.000259076</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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 scenarios : **General exposures** - ERC07

Health Contributing scenarios : **General measures applicable to all activities** - PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09
Bulk transfers - 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
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.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 456.5 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 20 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.01
Release fraction to wastewater from process (initial release prior to RMM): 0.0001596

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 %
Risk from environmental exposure is driven by freshwater.
Treat air emission to provide a typical removal efficiency of: 0 %
Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %

Date of issue/Date of revision : 7/27/2022

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Organisational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to municipal sewage treatment plant : Assumed domestic sewage treatment plant flow: 2 000 m³/day
Estimated substance removal from wastewater via municipal sewage treatment: 96.03 %
Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 802 760.4119 kg/day
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %

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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Filling of articles/equipment

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 operational conditions affecting worker exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)

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: Remanufacture of reject articles

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 : 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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): : Hydrocarbon Block Method (Petrorisk)

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): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.0000015402</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.000568663</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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: PROC10, PROC15
Sector of end use: SU03
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC02, ERC04
Environmental contributing scenarios : **General exposures** - ERC02, ERC04
Health Contributing scenarios : **General measures applicable to all activities** - PROC10, PROC15
Laboratory activities - PROC15
Cleaning - PROC10

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 : Predominantly hydrophobic
Substance is complex UVCB.
Amounts used : Maximum daily site tonnage (kg/day): 78.15 kg/day
Frequency and duration of use : Continuous release
Emission days (days per year): 20 days per year
Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure : Release fraction to air from process (initial release prior to RMM): 0.025
Release fraction to wastewater from process (initial release prior to RMM): 0.02
Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 %
Risk from environmental exposure is driven by freshwater.
Treat air emission to provide a typical removal efficiency of: 0 %
Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %
Organisational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to municipal sewage treatment plant : Assumed domestic sewage treatment plant flow: 2 000 m³/day
 Estimated substance removal from wastewater via municipal sewage treatment: 96.03 %
 Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 6 008.451811 kg/day
 Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %

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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 : 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Cleaning	
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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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):	: Hydrocarbon Block Method (Petrisk)
Exposure estimation and reference to its source	: Not available.
Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 3: Laboratory activities	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 4: Cleaning	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Environment	: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Maximum Risk Characterization Ratios for air emissions 0.000005876 Maximum Risk Characterisation Ratios for waste water emissions 0.013006678 Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

Section 1 - Title

Short title of the exposure scenario : Use in cleaning agents - Professional

List of use descriptors : **Identified use name:** Use in cleaning agents - Professional
Process Category: PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC19
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a, ERC08d

Environmental contributing scenarios : **General exposures** - ERC08a, ERC08d

Health Contributing scenarios : **General measures applicable to all activities** - PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC19
Filling/preparation of equipment from drums or containers. - PROC08a, PROC08b
Automated process with (semi) closed systems - PROC02, PROC03
Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products) - PROC04
Dipping, immersion and pouring - PROC13
Cleaning with low-pressure washers - PROC10
Cleaning with high pressure washers - PROC11
Surface cleaning - PROC10
Ad hoc manual application via trigger sprays, dipping, etc. - PROC10
Application of cleaning products in closed systems - PROC04
Cleaning of medical devices - PROC04

Processes and activities covered by the exposure scenario : Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand).

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Predominantly hydrophobic
Substance is complex UVCB.

Amounts used : Maximum daily site tonnage (kg/day): 0.0167 kg/day

Frequency and duration of use : Continuous release
Emission days (days per year): 365 days per year

Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10

Other operational conditions of use affecting environmental exposure : Release fraction to air from wide dispersive use (regional only): 0.02
Release fraction to wastewater from wide dispersive use: 0.000001

Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.

Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by freshwater. Treat air emission to provide a typical removal efficiency of: 0 % 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %
Organisational measures to prevent/limit release from site	: Not applicable.
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 99.44041738 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Filling/preparation of equipment from drums or containers.

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Automated process with (semi) closed systems

Use in contained systems / 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products)

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Dipping, immersion and pouring

Manual Cleaning

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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: Cleaning with low-pressure washers

Rolling, Brushing / No spraying

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Cleaning with high pressure washers

Spraying / Indoor and outdoor use.

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Surface cleaning

Manual / Spraying

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Ad hoc manual application via trigger sprays, dipping, etc.

Rolling, Brushing

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Application of cleaning products in closed systems

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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Cleaning of medical devices

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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): : Hydrocarbon Block Method (Petrisk)

Exposure estimation and reference to its source : ESVOC SPERC 8.4b.v1

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 3: Filling/preparation of equipment from drums or containers.

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 4: Automated process with (semi) closed systems

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 5: Semi-automated process. (e.g. Semi-automatic application of floor care and maintenance products)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 6: Dipping, immersion and pouring

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 7: Cleaning with low-pressure washers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 8: Cleaning with high pressure washers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 10: Ad hoc manual application via trigger sprays, dipping, etc.

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 11: Application of cleaning products in closed systems

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 12: Cleaning of medical devices

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.0000004793</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.000167506</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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

Environmental contributing scenarios : **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.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures	
Product characteristics	: Predominantly hydrophobic Substance is complex UVCB.
Amounts used	: Maximum daily site tonnage (kg/day): 0.067164384 kg/day
Frequency and duration of use	: Continuous release Emission days (days per year): 365 days per year
Environment factors not influenced by risk management	: Local freshwater dilution factor: 10 Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure	: Release fraction to air from wide dispersive use (regional only): 0.05 Release fraction to wastewater from wide dispersive use: 0.025
Technical conditions and measures at process level (source) to prevent release	: Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	: If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 % Risk from environmental exposure is driven by freshwater. Treat air emission to provide a typical removal efficiency of: 0 % Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %

Organisational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to municipal sewage treatment plant : Assumed domestic sewage treatment plant flow: 2 000 m³/day
Estimated substance removal from wastewater via municipal sewage treatment: 96.03 %
Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 544.1184459 kg/day
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %

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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Filling/preparation of equipment from drums or containers.

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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 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 operational conditions affecting worker exposure : Assumes use at not more than 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 7: Operation of equipment containing engine oils and similar

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 operational conditions affecting worker exposure	: Operation is carried out at elevated temperature (> 20°C above ambient temperature)
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 8: Remanufacture of reject articles

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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 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)
Other operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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): : Hydrocarbon Block Method (Petrorisk)

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): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 3: Drum/batch transfers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 4: Transfer from/pouring from containers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 5: Filling/preparation of equipment from drums or containers.

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 6: General exposures (closed systems)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 7: Operation of equipment containing engine oils and similar

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Workers: 8: Remanufacture of reject articles

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	<p>: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.</p> <p>Maximum Risk Characterization Ratios for air emissions 0.000005876</p> <p>Maximum Risk Characterisation Ratios for waste water emissions 0.013006678</p> <p>Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.</p> <p>Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.</p>
Health	<p>: Available hazard data do not support the need for a DNEL to be established for other health effects.</p> <p>Risk management measures are based on qualitative risk characterisation.</p> <p>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.</p>

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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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: PROC10, PROC15
Sector of end use: SU22
Subsequent service life relevant for that use: No.
Environmental Release Category: ERC08a
Environmental contributing scenarios : **General exposures** - ERC08a
Health Contributing scenarios : **General measures applicable to all activities** - PROC10, PROC15
Laboratory activities - PROC15
Cleaning - PROC10

Processes and activities covered by the exposure scenario : Use of small quantities within laboratory settings, including material transfers and equipment cleaning

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics : Predominantly hydrophobic
Substance is complex UVCB.
Amounts used : Maximum daily site tonnage (kg/day): 0.003921644 kg/day
Frequency and duration of use : Continuous release
Emission days (days per year): 365days per year
Environment factors not influenced by risk management : Local freshwater dilution factor: 10
Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure : Release fraction to air from wide dispersive use (regional only): 0.5
Release fraction to wastewater from wide dispersive use: 0.5
Technical conditions and measures at process level (source) to prevent release : Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil : If discharging to municipal sewage treatment plant, provide the required on-site wastewater removal efficiency of: 0 %
Risk from environmental exposure is driven by freshwater.
Treat air emission to provide a typical removal efficiency of: 0 %
Treat on-site wastewater (prior to receiving water discharge) to provide the required removal efficiency of: 0 %
Organisational measures to prevent/limit release from site : Not applicable.

Conditions and measures related to municipal sewage treatment plant : Assumed domestic sewage treatment plant flow: 2 000 m³/day
 Estimated substance removal from wastewater via municipal sewage treatment: 96.03 %
 Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 16.08333577 kg/day
 Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %

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 (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting.

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. Keep away from sources of ignition - 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)

Other operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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 : 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 operational conditions affecting worker exposure : Assumes use at not more than 20°C above ambient temperature.

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: Cleaning	
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 operational conditions affecting worker exposure	: Assumes use at not more than 20°C above ambient temperature.
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):	: Hydrocarbon Block Method (Petrisk)
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):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 3: Laboratory activities	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.
Exposure estimation and reference to its source - Workers: 4: Cleaning	
Exposure assessment (human):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

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

Environment	: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Maximum Risk Characterization Ratios for air emissions 0.000015532 Maximum Risk Characterisation Ratios for waste water emissions 0.000243833 Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

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 scenarios : **General exposures** - ERC08a, ERC08d

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
Waterborne 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.

Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics	: Predominantly hydrophobic Substance is complex UVCB.
Amounts used	: Maximum daily site tonnage (kg/day): 0.0762 kg/day
Frequency and duration of use	: Continuous release Emission days (days per year): 365 days per year
Environment factors not influenced by risk management	: Local freshwater dilution factor: 10 Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM): 0.985 Release fraction to wastewater from process (initial release prior to RMM): 0.01
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 100.12 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 consumer exposure for 2: General measures applicable to all activities

General measures (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting. Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage. Keep lamps filled with this liquid out of the reach of children.

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 use/exposure	: Not applicable.
Other given operational conditions affecting consumers exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 3: Glues, hobby use

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 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)**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 article** : Covers concentrations up to 30 %**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**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** : 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 85.05 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 6 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 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

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)

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 8: Pouring into radiator

Anti-freeze and de-icing products

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 10 %

Amounts used : 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 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 0.17 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

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 occupational hygiene : Not applicable.

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)

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 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)

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 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 %

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: Waterborne latex wall paint

Coatings and paints, thinners, paint removers

Product characteristics : Liquid

Concentration of substance in mixture or 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 substance in mixture or article : Covers concentrations up to 27.5 %

Amounts used : 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 : 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 : 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 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
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.
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

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 16: Removers (paint-, glue-, wall paper-, sealant-remover)

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)

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 17: Fillers and putty

Fillers, putties, plasters, modelling clay

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 2 %

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 occupational hygiene : Not applicable.

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 : Covers concentrations up to 2 %

Amounts used : 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 : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 1 %

Amounts used : 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 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 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 20: Finger paints

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 50 %

Amounts used : 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	: 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.

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 article	: Covers concentrations up to 1.5 %
Amounts used	: Covers skin contact area up to 428.75 cm ² For each use event, covers use amounts up to 2 760 g Covers use in room size of 20 m ³
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 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	: Covers concentrations up to 27.5 %
Amounts used	: Covers skin contact area up to 428.75 cm ² For each use event, covers use amounts up to 744 g Covers use in room size of 20 m ³
Frequency and duration of use/exposure	: 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	: 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	: Covers concentrations up to 50 %

Amounts used	: Covers skin contact area up to 857.5 cm ² For each use event, covers use amounts up to 215 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 2 days per year Covers use in a one car garage (34 m ³) 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	
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 cm ² For each use event, covers use amounts up to 491 g Covers use in room size of 20 m ³
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 article	: Covers concentrations up to 10 %
Amounts used	: Covers skin contact area up to 71.4 cm ² For each use event, covers use amounts up to 40 g Covers use in room size of 20 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 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 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 cm ² For each use event, covers use amounts up to 56 g Covers use in room size of 20 m ³
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)
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 27: Polishes, spray (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 cm ² For each use event, covers use amounts up to 56 g Covers use in room size of 20 m ³
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	
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 %
Amounts used	: Covers skin contact area up to 468 cm ² For each use event, covers use amounts up to 2 200 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 4 days per year Covers use in a one car garage (34 m ³) 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 : Paste.**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****Advice on general occupational hygiene** : Not applicable.**Contributing scenario controlling consumer exposure for 30: Sprays**

Lubricants, greases, release products

Product characteristics : Spray**Concentration of substance in mixture or article** : Covers concentrations up to 50 %**Amounts used** : 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** : 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)**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 31: Polishes, wax/cream (floor, 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 142 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)**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 cm ² For each use event, covers use amounts up to 35 g Covers use in room size of 20 m ³
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	
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	: Liquid
Concentration of substance in mixture or article	: Covers concentrations up to 10 %
Amounts used	: Covers skin contact area up to 857.5 cm ² For each use event, covers use amounts up to 115 g Covers use in room size of 20 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 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.
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Exposure estimation and reference to its source - Environment: 1: General exposures

Exposure assessment (environment):	: Hydrocarbon Block Method (Petrorisk)
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):	: Not applicable.
Exposure estimation and reference to its source	: Not applicable.

Exposure estimation and reference to its source - Consumers: 3: Glues, hobby use

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 4: Glues DIY-use (carpet glue, tile glue, wood parquet glue)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 5: Glue from spray

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 6: Sealants

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 7: Washing car window

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 8: Pouring into radiator

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 9: Lock de-icer

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 10: Laundry and dish-washing products

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 12: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 13: Waterborne latex wall paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 14: Solvent-rich, high-solid, water-borne paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 15: Aerosol spray can

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 16: Removers (paint-, glue-, wall paper-, sealant-remover)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 17: Fillers and putty

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 18: Plasters and floor equalisers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 19: Modelling clay

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 20: Finger paints

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 21: Non-metal-surface treatment products: Waterborne latex wall paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 22: Non-metal-surface treatment products: waterborne paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 23: Non-metal-surface treatment products: aerosol sprays

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 24: Non-metal-surface treatment products: Removers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 25: Ink and toners

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 26: Polishes, wax / cream (floor, furniture, shoes)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 27: Polishes, spray (furniture, shoes)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 28: Liquid

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 29: Pastes

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 30: Sprays

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 31: Polishes, wax/cream (floor, furniture, shoes)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 32: Polishes, spray (furniture, shoes)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 33: Textile dyes and impregnating products

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Maximum Risk Characterization Ratios for air emissions 0.0000057118 Maximum Risk Characterisation Ratios for waste water emissions 0.001461995
Health	: Estimated consumer exposures are not expected to exceed DNELs when the identified operating conditions are adopted. [ConsG1] 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 : Mixture
Code : 1166810
Product name : PC FLUIDS EXXSOL DSP 30/75 S

Section 1 - Title

Short title of the exposure scenario : Use in cleaning agents - Consumer

List of use descriptors : **Identified use name:** Use in cleaning agents - 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: PC03, PC04, PC08, PC09a, PC09b, PC09c, PC24, PC35, PC38

Environmental contributing scenarios : **General exposures** - ERC08a, ERC08d

Health Contributing scenarios : **General measures applicable to all activities** - PC03, PC04, PC08, PC09a, PC09b, PC09c, PC24, PC35, PC38
Air care, instant action (aerosol sprays) - PC03
Air care, continuous action (solid and liquid) - PC03
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
Waterborne 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
Liquid - PC24
Pastes - PC24
Sprays - PC24
Laundry and dish washing products - PC35
Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) - PC35
Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) - PC35
Welding and soldering products, flux products - PC38
Air care, instant action (aerosol sprays) - PC03
Air care, continuous action (solid and liquid) - PC03

Processes and activities covered by the exposure scenario	: Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.
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Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: General exposures

Product characteristics	: Predominantly hydrophobic Substance is complex UVCB.
Amounts used	: Maximum daily site tonnage (kg/day): 0.0732 kg/day
Frequency and duration of use	: Continuous release Emission days (days per year): 365 days per year
Environment factors not influenced by risk management	: Local freshwater dilution factor: 10 Local marine water dilution factor: 10
Other operational conditions of use affecting environmental exposure	: Release fraction to air from process (initial release prior to RMM): 0.95 Release fraction to wastewater from process (initial release prior to RMM): 0.025
Conditions and measures related to municipal sewage treatment plant	: Assumed domestic sewage treatment plant flow: 2 000 m ³ /day Estimated substance removal from wastewater via municipal sewage treatment: 96.03 % Maximum allowable site tonnage (MSafe) (kg/d): [Assumed domestic sewage treatment plant flow]: 1 179.377173 kg/day Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs: 96.03 %
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 consumer exposure for 2: General measures applicable to all activities

General measures (aspiration)

The H304 risk phrase (May be fatal if swallowed and enters airways) relates to potential for aspiration, a non-quantifiable hazard determined by physico-chemical properties (i.e. viscosity) that can occur during ingestion and also if it is vomited following ingestion. A DNEL cannot be derived. Risks from the physicochemical hazards of substances can be controlled by implementing risk management measures. For substances classified as H304, the following measures need to be implemented to control the aspiration hazard.

Product safety-related measures: Do not ingest. If swallowed then seek immediate medical assistance. Do not induce vomiting. Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage. Keep lamps filled with this liquid out of the reach of children.

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 use/exposure	: Not applicable.
Other given operational conditions affecting consumers exposure	: Not applicable.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 3: Air care, instant action (aerosol sprays)

Air care products

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 cm ² For each use event, covers use amounts up to 0.1 g Covers use in room size of 20 m ³
Frequency and duration of use/exposure	: Covers use up to 4 times per day Covers use up to 365 days per year Covers use under typical household 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 occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 4: Air care, continuous action (solid and liquid)

Air care products

Product characteristics	: Solids and liquids
Concentration of substance in mixture or article	: Covers concentrations up to 10 %
Amounts used	: Covers skin contact area up to 35.7 cm ³ For each use event, covers use amounts up to 0.48 g Covers use in room size of 20 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 under typical household ventilation. Covers exposure up to 8 hour(s)
Other given operational conditions affecting consumers exposure	: Covers use at ambient temperatures.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 5: 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 cm ² For each use event, covers use amounts up to 0.5 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 under typical household ventilation. Covers use in a one car garage (34 m ³) under typical ventilation. Covers exposure up to 0.02 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 6: Pouring into radiator

Anti-freeze and de-icing products

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 10 %

Amounts used : 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 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 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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 7: 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

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 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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 8: 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)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 9: 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)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 10: 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 %

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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 11: Waterborne latex wall paint

Coatings and paints, thinners, paint removers

Product characteristics : Liquid

Concentration of substance in mixture or 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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 12: Solvent-rich, high-solid, water-borne paint

Coatings and paints, thinners, paint removers

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 27.5 %

Amounts used : 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 : 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 : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 13: 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 : 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 under typical household ventilation.
Covers use in a one car garage (34 m³) under typical ventilation.
Covers exposure up to 0.33 hour(s)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 14: Removers (paint-, glue-, wall paper-, sealant-remover)

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 cm ² For each use event, covers use amounts up to 491 g Covers use in room size of 20 m ³
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.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 15: Fillers and putty

Fillers, putties, plasters, modelling clay

Product characteristics	: Liquid
Concentration of substance in mixture or article	: Covers concentrations up to 2 %
Amounts used	: Covers skin contact area up to 35.73 cm ² For each use event, covers use amounts up to 85 g Covers use in room size of 20 m ³
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.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 16: Plasters and floor equalisers

Fillers, putties, plasters, modelling clay

Product characteristics	: Liquid
Concentration of substance in mixture or article	: Covers concentrations up to 2 %
Amounts used	: Covers skin contact area up to 857.5 cm ² For each use event, covers use amounts up to 13 800 g Covers use in room size of 20 m ³
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.
Conditions and measures related to personal protection and hygiene	
Advice on general occupational hygiene	: Not applicable.

Contributing scenario controlling consumer exposure for 17: Modelling clay

Fillers, putties, plasters, modelling clay

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 1 %

Amounts used : 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 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 8 hour(s)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 18: Finger paints

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 50 %

Amounts used : 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 : 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 8 hour(s)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 19: Liquid

Lubricants, greases, release products

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 under typical household ventilation.
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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 20: Pastes

Lubricants, greases, release products

Product characteristics : Paste.

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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 21: Sprays

Lubricants, greases, release products

Product characteristics : Spray

Concentration of substance in mixture or article : Covers concentrations up to 50 %

Amounts used : 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 : 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)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 22: Laundry and dish washing products

Washing and cleaning products (including solvent based products)

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)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 23: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Washing and cleaning products (including solvent based products)

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)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 24: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Washing and cleaning products (including solvent based products)

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 15 %

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.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 25: Welding and soldering products, flux products

Product characteristics : Liquid

Concentration of substance in mixture or article : Covers concentrations up to 20 %

Amounts used : Covers skin contact area up to 857.5 cm²
For each use event, covers use amounts up to 12 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 1 hour(s)

Other given operational conditions affecting consumers exposure : Covers use at ambient temperatures.

Conditions and measures related to personal protection and hygiene

Advice on general occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 26: Air care, instant action (aerosol sprays)

Air care products

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 0.5 g
Covers use in room size of 20 m³

Frequency and duration of use/exposure : Covers use up to 4 times per day
Covers use up to 365 days per year
Covers use under typical household 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 occupational hygiene : Not applicable.

Contributing scenario controlling consumer exposure for 27: Air care, continuous action (solid and liquid)

Air care products

Product characteristics : Solids and liquids

Concentration of substance in mixture or article : Covers concentrations up to 50 %

Amounts used : Covers skin contact area up to 35.7 cm²
For each use event, covers use amounts up to 0.48 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 8 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): : Hydrocarbon Block Method (Petrisk)

Exposure estimation and reference to its source : ESVOC SPERC 8.4c.v1

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

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 3: Air care, instant action (aerosol sprays)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 4: Air care, continuous action (solid and liquid)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 5: Washing car window

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 6: Pouring into radiator

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 7: Lock de-icer

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 8: Laundry and dish-washing products

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 9: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 10: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 11: Waterborne latex wall paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 12: Solvent-rich, high-solid, water-borne paint

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 13: Aerosol spray can

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 14: Removers (paint-, glue-, wall paper-, sealant-remover)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 15: Fillers and putty

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 16: Plasters and floor equalisers

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 17: Modelling clay

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 18: Finger paints

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 19: Liquid

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 20: Pastes

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 21: Sprays

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 22: Laundry and dish washing products

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 23: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 24: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 25: Welding and soldering products, flux products

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 26: Air care, instant action (aerosol sprays)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

Exposure estimation and reference to its source - Consumers: 27: Air care, continuous action (solid and liquid)

Exposure assessment (human): : Not applicable.

Exposure estimation and reference to its source : Not applicable.

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

Environment	: Further details on scaling and control technologies are provided in SPERC factsheet. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Maximum Risk Characterization Ratios for air emissions 0.0000105902 Maximum Risk Characterisation Ratios for waste water emissions 0.0000620462
Health	: Estimated consumer exposures are not expected to exceed DNELs when the identified operating conditions are adopted. [ConsG1] 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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