SAFETY DATA SHEET



EXTRUDATE WITH HMI

Section 1. Identification

: EXTRUDATE WITH HMI **Product name Product description** : Catalyst Intermediate

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

Identified uses : Intermediate

Uses advised against : This product is not recommended for any industrial, professional or consumer use other

than the identified uses above.

Supplier : ExxonMobil Catalysts and Licensing LLC

22777 Springwoods Village Parkway

Spring, TX 77389 USA

24-Hour emergency telephone number

: 1-800-424-9300 / +1 703-741-5970 / +1-703-527-3887 (CHEMTREC)

Product Technical Information

: 832-624-8500

SDS Internet Address : www.sds.exxonmobil.com

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture : COMBUSTIBLE DUSTS

SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements H314 - Causes severe skin burns and eye damage.

May form combustible dust concentrations in air.

Precautionary statements

Prevention : P260 - Do not breathe dust.

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves, protective clothing and eye or face protection.

: P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or Response

doctor. Rinse mouth. Do NOT induce vomiting.

P303 + P310, P361, P353 - IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. Take off immediately all contaminated clothing. Rinse skin with water or

shower.

P304 + P310. P340 - IF INHALED: Immediately call a POISON CENTER or doctor.

Remove person to fresh air and keep comfortable for breathing.

P305 + P310, P351, P338 - IF IN EYES: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P363 - Wash contaminated clothing before reuse.

Storage : P405 - Store locked up.

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

and international regulations.

Date of issue/Date of revision : 24 July 2024 : 24 June 2024 1/11 Date of previous issue Version: 1.01

Section 2. Hazards identification

Supplemental label elements

Contains

: hexamethyleneimine

Hazards not otherwise classified

: None known.

Note

: 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.

: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. Prevent dust accumulation.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% by weight	Identifiers
hexamethyleneimine	≥10 - ≤18	CAS: 111-49-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary 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 immediately. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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 immediately. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician. Call a poison center or physician.

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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

: 24 June 2024 Date of issue/Date of revision : 24 July 2024 Version: 1.01 2/11 Date of previous issue

Section 4. First aid measures

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion: Adverse symptoms may include the following:

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

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. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing

media

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

: Do not use water jet.

Specific hazards arising from the chemical

rrom the chemical

Hazardous combustion

products

: No specific fire or explosion hazard.

: Amine, Ammonia, Incomplete combustion products, nitrogen oxides, Oxides of carbon, Smoke, Fume

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. Assure an extended cooling down period to prevent re-ignition. Prevent runoff 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.

Date of issue/Date of revision : 24 July 2024 Date of previous issue : 24 June 2024 Version : 1.01 3/11

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. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

For emergency responders: If specialized 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 nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled 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).

Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Material will sink. Seek advice of a specialist No immediate action required. 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 24 June 2024 : 24 July 2024 Version: 1.01 4/11 Date of previous issue

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
zeolite	ACGIH TLV (United States, 1/2024) [Aluminum, metal and
	insoluble compounds]
	TWA 8 hours: 1 mg/m³. Form: Respirable fraction.
hexamethyleneimine	None.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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.

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.

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.

Section 9. Physical and chemical properties and safety characteristics

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

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

Appearance

Physical state : Solid. [powder]

Color : White

Date of issue/Date of revision : 24 July 2024 Date of previous issue : 24 June 2024 Version : 1.01 5/11

EXTRUDATE WITH HMI

Section 9. Physical and chemical properties and safety characteristics

: Ammonia-like **Odor threshold** : Not available. Not applicable. рH Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling

range

Flash point : Not applicable. **Evaporation rate** : Not applicable. **Flammability** : Ignitable : Not applicable.

Lower and upper explosion limit/flammability limit

: Not available.

: Not available. Vapor pressure : Not applicable. **Relative vapor density** : 1 to 2

Solubility in water Partition coefficient: noctanol/water

Relative density

: Not applicable.

: Negligible

Auto-ignition temperature : Not applicable. **Decomposition temperature** : Not available. **Viscosity** : Not applicable.

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

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

: The product is stable. **Chemical stability**

Possibility of hazardous reactions

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

Conditions to avoid : High dust concentrations., High energy sources of ignition., Moisture.

Incompatible materials : Strong Acids, Strong Bases, Strong oxidizers, water

Hazardous decomposition products

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Test	Species	Result	Duration
hexamethyleneimine	LC50 Inhalation Vapor	Rat	2.77 mg/l	4 hours
	LD50 Oral	Rat	410 mg/kg	-

Conclusion/Summary

Inhalation : Minimally Toxic. No end point data for material. Based on assessment of the

components.

Dermal Minimally Toxic. No end point data for material. Based on assessment of the

components.

: 24 June 2024 6/11 Date of issue/Date of revision : 24 July 2024 Version: 1.01 Date of previous issue

Section 11. Toxicological information

Oral Minimally Taylo

: Minimally Toxic. No end point data for material. Based on assessment of the components.

Irritation/Corrosion

Conclusion/Summary

Skin: Corrosive to eyes and skin. May cause permanent damage. No end point data for

material. Based on assessment of the components.

Eyes : Severely irritating, and may seriously damage eye tissue. No end point data for material.

Based on assessment of the components.

Respiratory: May be irritating to the respiratory tract. The effects are irreversible. No end point data

for material.

Respiratory or skin sensitization

Conclusion/Summary

Skin : Not expected to be a skin sensitizer. No end point data for material. Based on

assessment of the components.

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. No end point data for material. Based on

assessment of the components.

Carcinogenicity

Conclusion/Summary: Not expected to cause cancer. No end point data for material. Based on assessment of

the components.

Reproductive toxicity

Conclusion/Summary: Not expected to be a reproductive toxicant. No end point data for material. Based on

assessment of the components.

Specific target organ toxicity (single exposure)

Conclusion/Summary: Not expected to cause organ damage from a single exposure. No end point data for

material.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Target organs
EXTRUDATE WITH HMI	Not applicable.	-

Conclusion/Summary: Not expected to cause organ damage from prolonged or repeated exposure. No end

point data for material. Based on assessment of the components.

Aspiration hazard

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

material. No end point data for material.

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.

Toxicity

Conclusion/Summary

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

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

Persistence and degradability

Not determined.

Bioaccumulative potential

Not determined.

Mobility in soil

Mobility : Material -- Can float on water, but will sink when saturated.

Other ecological information

Date of issue/Date of revision : 24 July 2024 Date of previous issue : 24 June 2024 Version : 1.01 7/11

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Avoid dispersal of spilled 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

	DOT Classification	TDG Classification	IMDG	IATA
UN number	UN1759	UN1759	UN1759	UN1759
UN proper shipping name	Corrosive solids, n.o.s.	CORROSIVE SOLID, N.O.S.	CORROSIVE SOLID, N.O.S.	Corrosive solid, n.o.s.
Transport hazard class(es)	8	8	8	8
Label(s) / Marks	CORNOLIVE			
Packing group	III	III	III	III
Environmental hazards	No.	No.	No.	No.

Additional information

DOT Classification

: Limited quantity Yes.

<u>Packaging instruction</u> Exceptions: 154. Non-bulk: 213. Bulk: 240. <u>Quantity limitation</u> Passenger aircraft/rail: 25 kg. Cargo aircraft: 100 kg.

Special provisions 128, IB8, IP3, T1, TP33

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).

Explosive Limit and Limited Quantity Index 5
Passenger Carrying Road or Rail Index 25

Special provisions 16

IMDG : <u>Emergency schedules</u> F-A, S-B

Special provisions 223, 274

IATA

: **Quantity limitation** Passenger and Cargo Aircraft: 25 kg. Packaging instructions: 860.

Cargo Aircraft Only: 100 kg. Packaging instructions: 864. Limited Quantities -

Passenger Aircraft: 5 kg. Packaging instructions: Y845.

Special provisions A3, A803

Date of issue/Date of revision : 24 July 2024 Date of previous issue : 24 June 2024 Version : 1.01 8/11

Section 14. Transport information

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.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112

: Not listed

(b) Hazardous Air **Pollutants (HAPs)**

Clean Air Act Section 602

: Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

Class II Substances

DEA List I Chemicals

(Precursor Chemicals)

: Not listed

DEA List II Chemicals

: Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
cyclohexylamine	<0.1	Yes.	10000	1386.5	10000	1386.5

SARA 304 RQ : 333333333.3 lbs / 151333333.3 kg

SARA 311/312

: COMBUSTIBLE DUSTS Classification

> SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	diammonium phosphate	7783-28-0	≤3
Supplier notification	diammonium phosphate	7783-28-0	≤3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: HEXAMETHYLENEIMINE

New York : None of the components are listed.

New Jersey : The following components are listed: HEXAMETHYLENEIMINE

Pennsylvania : None of the components are listed. Illinois : None of the components are listed.

Inventory list

: Not determined. **Australia inventory (AIIC)**

Date of issue/Date of revision : 24 July 2024 : 24 June 2024 Date of previous issue Version: 1.01 9/11

Section 15. Regulatory information

Canada inventory (DSL-NDSL)

China inventory (IECSC)

Japan inventory (CSCL)

Japan inventory (Industrial Safety and **Health Act)**

New Zealand Inventory of Chemicals

(NZIoC)

Philippines inventory (PICCS) Korea inventory (KECI) Taiwan Chemical Substances Inventory

(TCSI)

United States inventory (TSCA 8b)

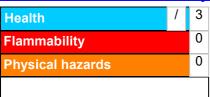
: At least one component is not listed.

: Not determined.

: All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
COMBUSTIBLE DUSTS SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1	Expert judgment Calculation method Calculation method

New Jersey Right to Know Disclosure

Name	CAS#
hexamethyleneimine	111-49-9
zeolite	1318-02-1
boehmite	1318-23-6
amorphous silica 7631-86-9 (catalyst bound)	
acetic acid ethenyl ester, polymer with ethenol	25213-24-5
	7783-28-0

History

Date of issue/Date of : 24 July 2024

revision

Date of previous issue : 24 June 2024

Version : 1.01

Date of issue/Date of revision : 24 June 2024 : 24 July 2024 Version: 1.01 10/11 Date of previous issue

EXTRUDATE WITH HMI

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Product code : 1162309

Notice to reader

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