

SAFETY DATA SHEET

Monoisopropanolamine



Version 1.0 Revision Date: 08-16-2024 SDS Number: 400000001915 Date of last issue: -
Date of first issue: 08/16/2024

SECTION 1. IDENTIFICATION

Product name : Monoisopropanolamine
Other means of identification : MIPA, 1-aminopropan-2-ol
Isopropanolamine

Manufacturer or supplier's details

Company name of supplier : Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)

Address : 12120 Wickchester Lane
Houston, TX 77079
United States of America (USA)

Telephone : +1 (281) 588-3491

Emergency telephone number : (800) 424-9300 CHEMTREC North America Transportation Emergency (24-hr)
(703) 527-3887 CHEMTREC World Wide
(337) 494-5142 Other Emergencies (24-hr)

Information (Product safety) : (281) 588 3491 SDS and Product Information (8:00am-4:30pm CST)
(281) 588 3492 Health and Safety Information (7:30am-4:00pm CST)

ProdSafe.Shared@sasol.com

Recommended use of the chemical and restrictions on use

Recommended use : lubricant or lubricant additive
Metal processing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

Reproductive toxicity : Category 2

Short-term (acute) aquatic hazard : Category 3

GHS label elements

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H227 Combustible liquid.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H361f Suspected of damaging fertility.
H402 Harmful to aquatic life.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : 1-aminopropan-2-ol
CAS-No. : 78-96-6

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
2-Propanol, 1-amino-	78-96-6	>= 90 - <= 100

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Remove from exposure, lie down.
Give oxygen or artificial respiration if needed.

If inhaled : Remove from exposure, lie down.
If breathing is irregular or stopped, administer artificial respiration.
Monitor breathing, give oxygen if necessary.
Call a physician immediately.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with soap and plenty of water.
Consult a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Protect unharmed eye.
Call a physician immediately.

If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : No information available.
Harmful in contact with skin.
Causes serious eye damage.
Suspected of damaging fertility.
Causes severe burns.

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
Dry powder
Carbon dioxide (CO₂)
Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Dangerous gases or fumes may occur in case of fire.
Exposure to decomposition products may be a hazard to

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- health.
Closed container may rupture if strongly heated.
- Hazardous combustion products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
- Further information : Standard procedure for chemical fires.
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Cool closed containers exposed to fire with water spray.
Remove unnecessary personnel from the danger area.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.
Protective suit
-

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.
The material taken up must be disposed of in accordance with regulations.
Clean contaminated surface thoroughly.
-

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Normal measures for preventive fire protection.
- Advice on safe handling : Wear personal protective equipment.
Avoid contact with skin and eyes.
- Conditions for safe storage : Keep container tightly closed.
Keep in a cool, well-ventilated place.
- Further information on storage stability : Stable at normal ambient temperature and pressure.
No decomposition if stored normally.
- Packaging material : Suitable material: Stainless steel
Unsuitable material: Zinc, Aluminium, copper/copper alloys,
Light metals/light metal alloys
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.96 g/cm ³ (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	completely miscible (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	log Pow: -0.96
Auto-ignition temperature	:	No data available
Decomposition temperature	:	Stable under normal conditions. Hazardous decomposition products formed under fire conditions.
Viscosity	:	
Viscosity, dynamic	:	31.8 mPas (68 °F / 20 °C)
Viscosity, kinematic	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	The product is chemically stable. No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Incompatible with strong acids and oxidizing agents. Exothermic reaction with strong acids.
Conditions to avoid	:	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation. Protect from frost.
Incompatible materials	:	non ferrous metals/non ferrous metal alloys Nitrous acid and other nitrosating agents Vinyl compounds Light metals/light metal alloys Zinc Halogenated compounds Acid anhydrides Acid chlorides Strong acids and oxidizing agents
Hazardous decomposition products	:	Nitrogen oxides (NO _x) Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), dense black smoke. Under unfavourable conditions and in combination with nitrosating agents (nitrites, nitrogen oxides) nitrosamines may form.

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful in contact with skin.

Product:

Acute oral toxicity : Acute toxicity estimate: 2,500 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg
Method: Calculation method

Components:

2-Propanol, 1-amino-:

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg
Symptoms: Convulsions
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC0 (Rat): \geq 1266 ppm
Exposure time: 6 h
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 1,000 - 2,000 mg/kg
Target Organs: Skin
Symptoms: Corrosion, Burn
Remarks: Information taken from reference works and the literature.

Skin corrosion/irritation

Causes severe burns.

Components:

2-Propanol, 1-amino-:

Species : Rabbit
Result : Corrosive
Remarks : Information taken from reference works and the literature.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

2-Propanol, 1-amino-:

Species : Rabbit

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Result : Corrosive
Remarks : Information taken from reference works and the literature.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Remarks : study scientifically unjustified

Test Type : Respiratory sensitisation

Remarks : No data available

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects
Information taken from reference works and the literature.

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects
Information taken from reference works and the literature.

Carcinogenicity

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Remarks : The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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Reproductive toxicity

Suspected of damaging fertility.

Components:

2-Propanol, 1-amino-:

Effects on fertility : Test Type: EOGRTS
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 100 mg/kg bw/day
General Toxicity F1: NOAEL: 100 mg/kg bw/day
Fertility: NOAEL: 300 mg/kg bw/day
Method: OECD Test Guideline 443
Result: Suspected of damaging fertility.

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 1,000 mg/kg bw/day
Developmental Toxicity: NOAEL: 1,000 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Animal testing did not show any effects on foetal development.

STOT - single exposure

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

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Components:

2-Propanol, 1-amino-:

Species : Rat
NOAEL : 56 mg/kg
Application Route : Oral
Exposure time : Subchronic toxicity
Method : OECD Test Guideline 408
Test substance : 1,1'-iminodipropan-2-ol
Remarks : Information taken from reference works and the literature.
Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:

2-Propanol, 1-amino-:

Not applicable

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-Propanol, 1-amino-:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: DIN 38412
Remarks: No toxicity at the limit of solubility
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Remarks: Information taken from reference works and the literature.

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100
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- plants mg/l
Exposure time: 72 h
Test Type: static test
Remarks: Information taken from reference works and the literature.

EC10 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l
Exposure time: 72 h
Test Type: static test
Remarks: Information taken from reference works and the literature.
- Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 2.08 mg/l
End point: mortality
Exposure time: 35 d
Test Type: flow-through test
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 10.7 mg/l
End point: reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211

EC50 (Daphnia magna (Water flea)): > 10.7 mg/l
End point: reproduction rate
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50 (activated sludge): > 261 mg/l
Exposure time: 30 min
Remarks: Information taken from reference works and the literature.
- Toxicity to soil dwelling organisms : Remarks: The study is not necessary.
Readily biodegradable.
Direct exposure to soil is unlikely.
- Plant toxicity : Remarks: The study is not necessary.
Readily biodegradable.
Direct exposure to soil is unlikely.
- Toxicity to terrestrial organisms : Remarks: The study is not necessary., Studies on birds do not need to be conducted due to large mammalian dataset.

Persistence and degradability

Components:

2-Propanol, 1-amino-:

- Biodegradability : aerobic
Inoculum: activated sludge, domestic
Result: Readily biodegradable.

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Biodegradation: > 60 %
Exposure time: 28 d
Remarks: Information taken from reference works and the literature.

anaerobic
Result: Biodegradable
Biodegradation: > 60 %
Remarks: Information taken from reference works and the literature.

Bioaccumulative potential

Components:

2-Propanol, 1-amino-:

Bioaccumulation : Bioconcentration factor (BCF): 0.11
Method: calculated
Remarks: Bioaccumulation is unlikely.
Information taken from reference works and the literature.

Mobility in soil

Components:

2-Propanol, 1-amino-:

Distribution among environmental compartments : Adsorption/Soil
Koc: 1.789, log Koc: 0.253
Method: calculated
Remarks: Highly mobile in soils
Not expected to adsorb on soil.
Information taken from reference works and the literature.

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Components:

2-Propanol, 1-amino-:

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

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Additional ecological information : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Can be incinerated, when in compliance with local regulations. Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Offer rinsed packaging material to local recycling facilities. Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s. (Isopropanolamine)

Class : 8

Packing group : II

Labels : Corrosive

Packing instruction (cargo aircraft) : 855

Packing instruction (passenger aircraft) : 851

IMDG-Code

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Isopropanolamine)

Class : 8

Packing group : II

Labels : 8

EmS Code : F-A, S-B

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

National Regulations

49 CFR

UN/ID/NA number : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s. (Isopropanolamine)

Class : 8

Packing group : II

Labels : CORROSIVE

ERG Code : 153

Marine pollutant : no

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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

2-Propanol, 1-amino- 78-96-6

Pennsylvania Right To Know

2-Propanol, 1-amino- 78-96-6

Maine Chemicals of High Concern

Product does not contain any listed chemicals

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Vermont Chemicals of High Concern

Product does not contain any listed chemicals

Washington Chemicals of High Concern

Product does not contain any listed chemicals

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

CH INV : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

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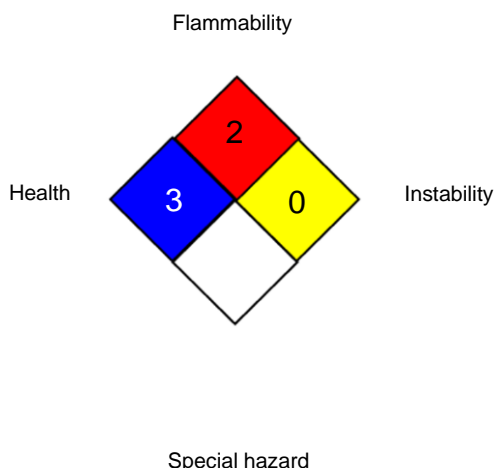
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NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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