

SAFETY DATA SHEET



MONOETHANOLAMINE PURE

Version 1.0 Revision Date: 12/18/2023 SDS Number: 400000002314 Date of last issue: -
Date of first issue: 12/18/2023

SECTION 1. IDENTIFICATION

Product name : MONOETHANOLAMINE PURE
Other means of identification : Ethanol, 2-amino-
MEA Pure

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)

SasolElectronicSDS@us.sasol.com

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use
raw material for gas scrubbers
raw material for thickening agents

SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1B
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)
Short-term (acute) aquatic hazard : Category 2

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Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
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 IF IN EYES: 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:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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 : 2-aminoethanol
CAS-No. : 141-43-5

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol, 2-amino-	141-43-5	>= 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 if swallowed, in contact with skin or if inhaled.
Causes serious eye damage.
May cause respiratory irritation.
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- : Dangerous gases or fumes may occur in case of fire.

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- fighting Exposure to decomposition products may be a hazard to 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: 1.4541, 1.4571 (DIN); X6CrNiTi18-10, X6CrNiMoTi17-12-2 (EN); 321, 316 Ti (AISI)
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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol, 2-amino-	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m ³	NIOSH REL
		ST	6 ppm 15 mg/m ³	NIOSH REL
		TWA	3 ppm 6 mg/m ³	OSHA Z-1
		STEL	6 ppm 15 mg/m ³	OSHA P0
		TWA	3 ppm 8 mg/m ³	OSHA P0

Engineering measures : If possible, use material transfer/filling, metering and blending plants that are closed.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use NIOSH approved respiratory protection.

Hand protection

Remarks : Impervious gloves Coordinate hand protection with other chemicals used. Preventive hand protection is recommended.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit
Safety shoes

Protective measures : Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Use barrier cream regularly.
Take off all contaminated clothing immediately.
Do not breathe vapours or spray mist.
Ensure adequate ventilation, especially in confined areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : colourless

Odour : ammoniacal

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Odour Threshold	:	No valid method available.
pH	:	ca. 12 (68 °F / 20 °C) Concentration: 20 g/l
Melting point/range	:	ca. 50 °F / 10 °C
Boiling point/boiling range	:	336 - 340 °F / 169 - 171 °C (1,013 hPa)
Flash point	:	ca. 203 °F / 95 °C Method: DIN 51758
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	ca. 0.5 hPa (68 °F / 20 °C)
Relative vapour density	:	> 1
Density	:	ca. 1.02 g/cm ³ (68 °F / 20 °C)
Solubility(ies) Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	log Pow: -1.31
Auto-ignition temperature	:	ca. 788 °F / 420 °C Method: DIN 51794
Decomposition temperature	:	Stable under normal conditions. Hazardous decomposition products formed under fire conditions.
Viscosity Viscosity, dynamic	:	No data available
Explosive properties	:	Constituents do not contain chemical groups associated with explosivity.
Oxidizing properties	:	not expected based on structure and functional groups

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.

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- 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 (CO₂), 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

Components:

Ethanol, 2-amino-:

- Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: no
Remarks: Information taken from reference works and the literature.
- Acute inhalation toxicity : LC0 (Rat): 1,487 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Information taken from reference works and the literature.
- Assessment: Harmful if inhaled.
Remarks: Derived from the classification according to Annex VI of Regulation (EC) 1272/2008.
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Remarks: Information taken from reference works and the literature.

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literature.

LD50: Assessment: Harmful in contact with skin.
Remarks: Derived from the classification according to Annex VI of Regulation (EC) 1272/2008.

Skin corrosion/irritation

Causes severe burns.

Components:

Ethanol, 2-amino-:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive
GLP : no
Remarks : Information taken from reference works and the literature.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Ethanol, 2-amino-:

Species : Rabbit
Result : Corrosive
GLP : no
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:

Ethanol, 2-amino-:

Test Type : Maximisation Test
Species : Guinea pig
Result : Not a skin sensitizer.
Remarks : Information taken from reference works and the literature.

Test Type : Respiratory sensitisation
Remarks : No data available

Germ cell mutagenicity

Not classified based on available information.

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Components:

Ethanol, 2-amino-:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects
Genotoxicity in vivo : Result: In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Components:

Ethanol, 2-amino-:

Remarks : The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Information taken from reference works and the literature.

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.

Reproductive toxicity

Not classified based on available information.

Components:

Ethanol, 2-amino-:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 416
Result: No toxicity to reproduction
Remarks: Information taken from reference works and the literature.

Effects on foetal development : Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Result: Animal testing did not show any effects on foetal development.
Remarks: Information taken from reference works and the literature.

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STOT - single exposure

May cause respiratory irritation.

Components:

Ethanol, 2-amino-:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

Ethanol, 2-amino-:

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

Repeated dose toxicity

Components:

Ethanol, 2-amino-:

Species : Rat
NOAEL : 300 mg/kg
Application Route : Oral
Exposure time : 75 d
Method : OECD Test Guideline 416
Target Organs : Prostate
Symptoms : reduced body weight gain, reduced food consumption

Species : Rat
NOAEL : 0.01 mg/l
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : Subacute toxicity
Target Organs : Respiratory Tract
Symptoms : long-term exposure - local effects

Aspiration toxicity

Not classified based on available information.

Components:

Ethanol, 2-amino-:

Not applicable

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Further information

Components:

Ethanol, 2-amino-:

Remarks : The substance is predicted to be bioavailable via the oral route.
extensive and rapid metabolisation

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethanol, 2-amino-:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 10 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
Remarks: Information taken from reference works and the literature.

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 1.2 mg/l
End point: reproduction rate
Exposure time: 30 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.85 mg/l
End point: reproduction rate
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Information taken from reference works and the literature.

Toxicity to microorganisms : EC10 (activated sludge of a predominantly domestic sewage):

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> 1,000 mg/l
End point: Respiration inhibition
Exposure time: 30 min
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : Remarks: The study is not necessary.
Justification:
Readily biodegradable.

Toxicity to terrestrial organisms : Remarks: No data available

Persistence and degradability

Components:

Ethanol, 2-amino-:

Biodegradability : aerobic
Inoculum: activated sludge, domestic, non-adapted
Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 28 d
Method: OECD Test Guideline 301A
GLP: no
Remarks: Information taken from reference works and the literature.

Bioaccumulative potential

Components:

Ethanol, 2-amino-:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Ethanol, 2-amino-:

Distribution among environmental compartments : Adsorption/Soil
Koc: 1.167
Method: calculated
Remarks: 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

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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:

Ethanol, 2-amino-:

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

Additional ecological information : Harmful to aquatic life with long lasting effects.

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 2491
Proper shipping name : Ethanolamine
Class : 8
Packing group : III
Labels : Corrosive
Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG-Code

UN number : UN 2491
Proper shipping name : ETHANOLAMINE
Class : 8
Packing group : III
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

SDS_US

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49 CFR

UN/ID/NA number : UN 2491
Proper shipping name : Ethanolamine
Class : 8
Packing group : III
Labels : CORROSIVE
ERG Code : 153
Marine pollutant : no

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 : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Specific target organ toxicity (single or repeated exposure)

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

Ethanol, 2-amino- 141-43-5 >= 90 - <= 100 %

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

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US State Regulations

Massachusetts Right To Know

Ethanol, 2-amino- 141-43-5

Pennsylvania Right To Know

Ethanol, 2-amino- 141-43-5

Maine Chemicals of High Concern

Product does not contain any listed chemicals

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.

California List of Hazardous Substances

Ethanol, 2-amino- 141-43-5

California Permissible Exposure Limits for Chemical Contaminants

Ethanol, 2-amino- 141-43-5

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
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
IECSC : 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.

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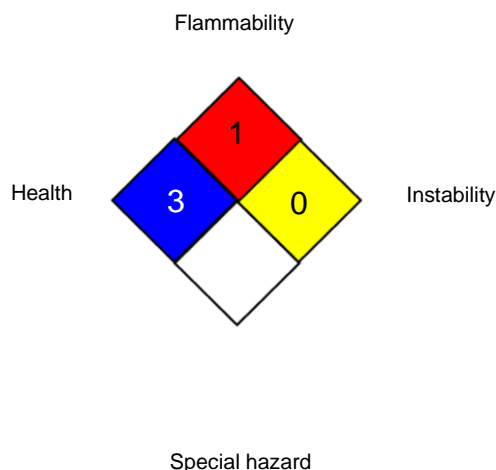


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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
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

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average

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 - In-

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ternational 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

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