

SAFETY DATA SHEET

according to US Regulation 29 CFR 1910.1200 and the Canadian HPA

AB Cutrine Ultra

Version 1.0

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SECTION 1. IDENTIFICATION

Product name : AB Cutrine Ultra

Manufacturer or supplier's detailsCompany : Arch Chemicals, Inc.
1200 Bluegrass Lakes Parkway
Alpharetta, GA
30004
United States of America (USA)E-mail address : sds@lonza.com
Emergency telephone number : In case of emergency call CHEMTREC US: 1-800-424-9300,
CHEMTREC WORLD-WIDE: +1-703-527-3887.**Recommended use of the chemical and restrictions on use**

Recommended use : Water treatment chemical

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4
Skin corrosion : Category 1B
Eye irritation : Category 2A
Specific target organ toxicity -
single exposure : Category 3 (Respiratory system)**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.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

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Precautionary statements

- : **Prevention:**
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 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.
 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.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous components

Chemical name / Synonyms	CAS-No.	Concentration (% w/w)
2,2',2''-Nitrilotriethanol	102-71-6	25 - 30
2-Aminoethanol	141-43-5	20 - 25
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1	15 - 20
2,2'-Iminodiethanol	111-42-2	0.1 - 0.2

SECTION 4. FIRST AID MEASURES

- General advice : Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- If inhaled : IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration,

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	preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
	<p>Move to fresh air.</p> <p>If unconscious, place in recovery position and seek medical advice.</p> <p>If breathing is irregular or stopped, administer artificial respiration.</p> <p>Call a physician or poison control centre immediately.</p> <p>Keep respiratory tract clear.</p>
In case of skin contact	<p>: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.</p> <p>After contact with skin, wash immediately with plenty of soap and water.</p> <p>Take off contaminated clothing and shoes immediately. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.</p> <p>Take victim immediately to hospital.</p>
In case of eye contact	<p>: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.</p> <p>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>Remove contact lenses.</p> <p>Protect unharmed eye.</p> <p>Keep eye wide open while rinsing.</p> <p>Continue rinsing eyes during transport to hospital.</p> <p>Small amounts splashed into eyes can cause irreversible tissue damage and blindness.</p>
If swallowed	<p>: IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.</p> <p>Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting.</p> <p>Never give anything by mouth to an unconscious person.</p> <p>Take victim immediately to hospital.</p>
Most important symptoms and effects, both acute and delayed	: No information available.
Notes to physician	<p>: Probable mucosal damage may contraindicate the use of gastric lavage.</p> <p>Treat symptomatically.</p>

SECTION 5. FIREFIGHTING MEASURES

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Suitable extinguishing media	:	Carbon dioxide (CO ₂) Dry powder Foam Water spray Alcohol-resistant foam Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Will not burn Heating or fire can release toxic gas. Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Use respirator when performing operations involving potential exposure to vapour of the product. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Evacuate personnel to safe areas. Use personal protective equipment as required.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.
Take precautionary measures against static discharges.
- Advice on safe handling : Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.
Avoid breathing mist or vapor.
- Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Store in a cool, dry and well ventilated place. Isolate from incompatible materials.
- Keep container tightly closed.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
To maintain product quality, do not store in heat or direct sunlight.
No smoking.
- Materials to avoid : Refer to Section 10, "Incompatible Materials."
- Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2',2''-Nitrilotriethanol	102-71-6	TWA	5 mg/m ³	ACGIH
2-Aminoethanol	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		STEL	6 ppm 15 mg/m ³	NIOSH/GUIDE
		REL	3 ppm	NIOSH/GUIDE

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			8 mg/m3	
		PEL	3 ppm 6 mg/m3	OSHA_TRANS
		TWA	3 ppm 8 mg/m3	Z1A
		STEL	6 ppm 15 mg/m3	Z1A
Copper, [carbonato(2-)dihydroxydi-	12069-69-1	REL (Dust and mist.)	1 mg/m3 (as Cu)	NIOSH/GUIDE
		(Fume.)		ACGIH
		(Dust and mist.)		ACGIH
		TWA (Dust and mist.)	1 mg/m3 (as Cu)	ACGIH
		TWA (Fume.)	0.2 mg/m3 (as Cu)	ACGIH
		REL (Fume.)	0.1 mg/m3 (as Cu)	NIOSH/GUIDE
2,2'-Iminodiethanol	111-42-2	(Inhalable fraction and vapor.)		ACGIH
		TWA (Inhal- able fraction and vapor.)	1 mg/m3	ACGIH
		(Inhalable fraction and vapor.)		ACGIH
		REL	3 ppm 15 mg/m3	NIOSH/GUIDE
		TWA	3 ppm 15 mg/m3	Z1A

Engineering measures

- : Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Personal protective equipment

Respiratory protection

- : Wear a NIOSH approved respirator if levels above the exposure limits are possible.
A NIOSH approved air purifying respirator with organic vapor cartridge and P95 particulate filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

In the case of vapour formation use a respirator with an approved filter.

Respirator with ABEK filter.

Respirator with a vapour filter (EN 141)

Hand protection

Material

- : Nitrile rubber

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Remarks	: Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body. Wear protective gloves. Break through time : > 480 min
Eye protection	: Chemical resistant goggles must be worn. Face-shield Safety glasses with side-shields conforming to EN166 Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: dark blue
Odour	: Citrus-like
Odour Threshold	: no data available
pH	: 10.2 - 10.3
Melting point/freezing point	: no data available
Boiling point/boiling range	: no data available
Flash point	: boils without flashing
Evaporation rate	: no data available
Flammability (solid, gas)	: The product is not flammable.
Flammability (liquids)	: no data available
Self-ignition	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: > 1 (Air = 1.0)

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Relative density	:	1.2322 (75 °F / 24 °C)
Density	:	Not applicable
Bulk density	:	no data available
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	396 mPa.s (75 °F / 24 °C)
Viscosity, kinematic	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available
Minimum ignition energy	:	no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Stable under normal conditions. Stable under recommended storage conditions. Vapours may form explosive mixture with air.
Conditions to avoid	:	High temperatures Heat, flames and sparks.
Incompatible materials	:	Strong acids Nitrates Strong acids and strong bases Oxidizing agents
Hazardous decomposition products	:	Carbon oxides Nitrogen oxides (NOx) No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure :

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Eyes
Skin
Ingestion

Acute toxicity

- Acute oral toxicity : LD50 (Rat): = 1,000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 2.07 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: (Whole-body)
- Acute dermal toxicity : LD50 (Rat): > 2,000 - < 5,000 mg/kg
- Acute toxicity (other routes of administration) :
Remarks: Corrosive to skin
Severe eye irritation
Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract.

Skin corrosion/irritation

Result: Corrosive to skin

Serious eye damage/eye irritation

Result: Severe eye irritation

Respiratory or skin sensitisation

Remarks: Negative skin sensitizer, guinea pig - Buehler Method

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: no data available

Carcinogenicity

Result: no data available
Remarks: no data available

IARC

Group 2B: Possibly carcinogenic to humans
2,2'-Iminodiethanol 111-42-2

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.

ACGIH

Confirmed animal carcinogen with unknown relevance to humans
2,2'-Iminodiethanol 111-42-2

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Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

Repeated dose toxicity

Remarks: Not known or reported to cause subchronic or chronic toxicity.

Aspiration toxicity

No aspiration toxicity classification

Further information

Remarks: no data available

Remarks: Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : Remarks: no data available

Persistence and degradability

no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Components:

2,2',2''-Nitrilotriethanol:

Partition coefficient: n-octanol/water : log Pow: -2.3

2-Aminoethanol:

Partition coefficient: n-octanol/water : log Pow: -1.91 (25 °C)
Method: OECD Test Guideline 107

Copper, [carbonato(2-)]dihydroxydi-:

Partition coefficient: n-octanol/water : Remarks: no data available

Mobility in soil

Distribution among environmental compartments : Remarks: no data available

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Other adverse effects

Ozone-Depletion Potential : Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
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).

Additional ecological information : Toxic to fish and other aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.
As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION**DOT**

UN number : 1760
Proper shipping name : Corrosive liquids, n.o.s.
(Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Labels : 8
Emergency Response Guidebook Number : 154
Environmental hazards : no

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TDG

UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
(Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

IATA

UN number : 1760
Proper shipping name : Corrosive liquid, n.o.s.
(Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Labels : 8
Environmental hazards : no

IMDG

UN number : 1760
Proper shipping name : Corrosive liquid, n.o.s.
(Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Environmental hazards : Marine pollutant: yes

ADR

UN number : 1760
Proper shipping name : CORROSIVE LIQUID, N.O.S.
(Copper triethanolamine complex)
Transport hazard class : 8
Packing group : III
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Environmental hazards : yes

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RID

UN number	: 1760
Proper shipping name	: CORROSIVE LIQUID, N.O.S. (Copper triethanolamine complex)
Transport hazard class	: 8
Packing group	: III
Classification Code	: C9
Hazard Identification Number	: 80
Labels	: 8
Environmental hazards	: yes
Special precautions for user	: none
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

EPA Registration number	: 8959-53
Signal word	: DANGER!
Hazard statements	: Harmful if swallowed. Harmful if absorbed through skin. Corrosive. Causes skin burns. Corrosive - causes irreversible eye damage. This pesticide is toxic to fish.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-Iminodiethanol	111-42-2	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

SARA 313

Components	CAS-No.	Concentration
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1	10 - 20 %

Clean Air Act

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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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Components	CAS-No.	Concentration
2,2'-Iminodiethanol	111-42-2	0.1 - 1 %

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 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

Components	CAS-No.	Concentration
2-Aminoethanol	141-43-5	20 - 30 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

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

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

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Components	CAS-No.	Concentration
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1	10 - 20 %

US State Regulations

Massachusetts Right To Know

Components	CAS-No.
2,2',2''-Nitrilotriethanol	102-71-6
2-Aminoethanol	141-43-5

Pennsylvania Right To Know

Components	CAS-No.
2,2',2''-Nitrilotriethanol	102-71-6
2-Aminoethanol	141-43-5
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1

New Jersey Right To Know

Components	CAS-No.
2,2',2''-Nitrilotriethanol	102-71-6
2-Aminoethanol	141-43-5
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1
Fatty acids, tall-oil	61790-12-3

California Prop. 65

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WARNING

Cancer - www.P65Warnings.ca.gov.

Components	CAS-No.
2,2'-Iminodiethanol	111-42-2

Canadian lists

NPRI

Components	CAS-No.
Copper, [carbonato(2-)]dihydroxydi-	12069-69-1
2,2'-Iminodiethanol	111-42-2

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

TSCA : This is an EPA registered pesticide.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : US. ACGIH Threshold Limit Values
 NIOSH/GUIDE : US. NIOSH: Pocket Guide to Chemical Hazards
 OSHA_TRANS : US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
 Z1A : US. OSHA Table Z-1-A (29 CFR 1910.1000)

AICS - Australian Inventory of Chemical Substances; 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

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- Safety Data Sheet; TCSI - Taiwan Chemical Substance 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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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.

Date format : yyyy/mm/dd

US / EN