

## SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

### Dissolvine DZ

Version 3

Revision Date 07/17/2019

Print Date 07/30/2019

US / Z8

#### 1. IDENTIFICATION

Product name : Dissolvine DZ

Product Use Description : Specific use(s): Chelating agent

Distributor : Silver Fern Chemical, Inc.

Address : 2226 Queen Anne Avenue N.  
: Seattle, WA 98109

Customer Service : 1-866-282-3384  
: info@silverfernchemical.com

**24 Hour Emergency Contact** : Infotrac 1-800-535-5053 (USA & Canada)  
: Outside USA & Canada 1-352-323-3500

#### 2. HAZARDS IDENTIFICATION

##### Emergency Overview

Appearance	powder
Color	white
Odor	odorless
Hazard Summary	Risk of dust explosion.

##### GHS Classification

Acute toxicity, Category 4, Inhalation

Eye irritation, Category 2B

Reproductive toxicity, Category 2

Specific target organ systemic toxicity - repeated exposure, Category 2, Inhalation, Respiratory Tract

Combustible dust

##### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H320 Causes eye irritation.

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H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.  
If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

## Precautionary Statements

### : **Prevention:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust or fume.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### **Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### **Storage:**

P405 Store locked up.

### **Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

## Carcinogenicity:

### **IARC**

: No ingredient 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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Diethylenetriaminepentaacetic acid  
 Pure substance/mixture : Substance

#### Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
Diethylenetriaminepentaacetic acid	67-43-6	Acute Tox. 4; H332 Eye Irrit. 2B; H320 Repr. 2; H361 STOT RE 2; H373	>= 90 - <= 100

Actual concentration is withheld as a trade secret

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.

Inhalation : Rinse nose and mouth with water.

Skin contact : Take off contaminated clothing and shoes immediately.

Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Obtain medical attention.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Risks : Causes eye irritation.  
Harmful if inhaled.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure if inhaled.

Treatment : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

- Specific hazards during fire fighting / Specific hazards arising from the chemical : Do not allow run-off from fire fighting to enter drains or water courses.  
Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
- Combustion products : Nitrogen oxides (NO<sub>x</sub>)
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.  
Wear respiratory protection.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.
- Emergency measures on accidental release : Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Prevent unauthorized persons entering the zone.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up / Methods for containment : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.
- Reference to other sections : For disposal considerations see section 13.  
  
For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

- Advice on safe handling : For personal protection see section 8.  
Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid contact with skin, eyes and clothing.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Smoking, eating and drinking should be prohibited in the application area.

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Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
No sparking tools should be used.

## Storage

Requirements for storage areas and containers : Prevent unauthorized access.  
Keep in a dry place.  
Store at room temperature in the original container.  
Keep container tightly closed.

Other data : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
Dust		TWA	50 Million particles per cubic foot	2011-07-01	OSHA Z-3	total dust
	Further information	:	a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c			
Dust		TWA	15 mg/m <sup>3</sup>	2011-07-01	OSHA Z-3	total dust
	Further information	:	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.			
Dust		TWA	5 mg/m <sup>3</sup>	2011-07-01	OSHA Z-3	respirable fraction
	Further information	:	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.			
Dust		TWA	15 Million particles per cubic foot	2011-07-01	OSHA Z-3	respirable fraction
	Further information	:	a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c			

ACGIH:	American Conference of Governmental Industrial Hygienists
BEI:	Biological Exposure Index
MAC:	Maximum Allowable Concentration
NIOSH:	National Institute for Occupational Safety and Health
OEL:	OEL: Occupational exposure limit.
STEL:	Short term exposure limit
TWA:	Time Weighted Average

### Appropriate engineering controls

Provide appropriate exhaust ventilation at places where dust is formed.  
Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

Eye/face protection	: Tightly fitting safety goggles
Skin and body protection	: Protective suit
Respiratory protection	: Half mask with a particle filter P2 (EN 143)
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### Environmental exposure controls

General advice	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	: powder
Color	: white
Odor	: odorless
Odor Threshold	: Not applicable

### Safety data

pH	: 2 - 3 saturated aqueous solution
Melting point	: Decomposes before melting.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Ignition temperature	: $\geq 200$ °C Method: Auto-ignition of a 5mm dust layer according to EN 50281-2-1

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Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard May form combustible dust concentrations in air during processing, handling or other means.
Flammability (liquids)	: Not applicable
Lower explosion limit	: $\geq 40$ g/m <sup>3</sup>
Upper explosion limit	: No data available
Vapor pressure	: Not applicable
Relative vapor density	: Not applicable
Relative density	: Not applicable
Bulk density	: ca. 750 kg/m <sup>3</sup>
Water solubility	: ca. 5 g/l
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: $< 0$
Autoignition temperature	: No data available
Decomposition temperature	: not determined
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not classified as oxidizing.

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

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: Carbon oxides nitrogen oxides (NO <sub>x</sub> )
Thermal decomposition	: not determined
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

Acute toxicity	:	Harmful if inhaled.
Skin corrosion/irritation	:	Not classified based on available information.
Serious eye damage/eye irritation	:	Causes eye irritation.
Respiratory or skin sensitization	:	Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information.
Germ cell mutagenicity	:	Not classified based on available information.
Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
STOT-single exposure	:	Not classified based on available information.
STOT-repeated exposure	:	May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.
Aspiration hazard	:	Not classified based on available information.

#### Potential Health Effects

Inhalation	:	Thermal decomposition can lead to release of irritating gases and vapors. Product dust may be irritating to respiratory system. Harmful if inhaled.
Skin	:	Product dust may be irritating to skin. May cause skin irritation.
Eyes	:	Causes serious eye irritation.
Ingestion	:	May cause irritation of the mucous membranes.
Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

#### Toxicology Assessment

Further information	:	Suspected of damaging fertility or the unborn child.
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#### Test result

Target Organ Systemic Toxicant - Repeated exposure	:	Routes of exposure: Inhalation Target Organs: Respiratory Tract The substance or mixture is classified as specific target organ
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toxicant, repeated exposure, category 2.

## Carcinogenicity:

- IARC** : No ingredient 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.

## TOXICOLOGY DATA FOR THE INGREDIENTS:

### Toxicology Assessment

#### Component: Diethylenetriaminepentaacetic acid

- CMR effects : Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

## Test result

#### Component: Diethylenetriaminepentaacetic acid

- Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 401  
Read-across (Analogy)
- Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 412  
Assessment: The component/mixture is moderately toxic after short term inhalation.  
Read-across (Analogy)
- Skin irritation : Species: Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Information given is based on data obtained from similar substances.
- Eye irritation : Result: Mild eye irritation  
Read-across (Analogy)  
Expert judgment
- Sensitization : Buehler Test  
Species: Guinea pig  
Result: Does not cause skin sensitization.  
Method: OECD Test Guideline 406
- Germ cell mutagenicity  
Genotoxicity in vitro : Ames test  
Salmonella typhimurium

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	Result: negative Method: OECD Test Guideline 471 Read-across (Analogy)
	Micronucleus test. Result: negative Method: OECD Test Guideline 473 Read-across (Analogy)
Genotoxicity in vivo	: No data available
Carcinogenicity	: No data available
Teratogenicity	: 100 mg/kg Method: OECD Test Guideline 414 Information given is based on data obtained from similar substances.
Target Organ Systemic Toxicant - Single exposure	: Not classified due to data which are conclusive although insufficient for classification.
Target Organ Systemic Toxicant - Repeated exposure	: Routes of exposure: Inhalation Target Organs: Respiratory Tract The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Aspiration toxicity	: Not classified due to data which are conclusive although insufficient for classification.

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## 12. ECOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Ecotoxicology Assessment

Additional ecological information : None known.

#### Test result

#### Elimination information (persistence and degradability)

Bioaccumulation : Not expected considering the low log Pow value.

Mobility : Adsorption to the solid soil particles is not expected.

Biodegradability : Not readily biodegradable, but will degrade after a longer period.

#### Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

#### Hazardous to the ozone layer

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:

### Test result

#### Component: Diethylenetriaminepentaacetic acid

#### Ecotoxicity effects

Toxicity to fish : LC50: > 674 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: Fresh water  
Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : LC50: 245 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

Toxicity to algae : NOEC: 310 mg/l  
Exposure time: 23 d  
Species: Scenedesmus quadricauda (Green algae)  
Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.

Toxicity to bacteria : EC50: 500 mg/l  
Exposure time: 30 min  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
Read-across (Analogy)

Toxicity to fish (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 28 d  
Species: Fish  
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 50 mg/l  
Exposure time: 18 d  
Species: Daphnia  
Method: OECD Test Guideline 211

#### Elimination information (persistence and degradability)

Bioaccumulation : Not expected considering the low log Pow value.

Mobility : Adsorption to the solid soil particles is not expected.

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Biodegradability : Not readily biodegradable, but will degrade after a longer period.

## Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

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### 13. DISPOSAL CONSIDERATIONS

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

#### International Regulations

##### ADR

Not regulated as a dangerous good

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### Further information for transport

Not classified as dangerous in the meaning of transport regulations.

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

##### TDG

Not regulated as a dangerous good

##### NOM-002-SCT

Not regulated as a dangerous good

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### 15. REGULATORY INFORMATION

#### Notification status

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

AICS : YES. On the inventory, or in compliance with the inventory

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NZIoC	: YES. On the inventory, or in compliance with the inventory
ENCS	: YES. On the inventory, or in compliance with the inventory
ISHL	: YES. On the inventory, or in compliance with the inventory
KECI	: YES. On the inventory, or in compliance with the inventory
PICCS	: YES. On the inventory, or in compliance with the inventory
IECSC	: YES. On the inventory, or in compliance with the inventory
TCSI	: YES. On the inventory, or in compliance with the inventory
TSCA	: YES. All substances listed as active on the TSCA inventory

For explanation of abbreviations, see section 16.

## TSCA list

TSCA 5(a)(2)	: No substances are subject to a Significant New Use Rule.
TSCA 12(b)	: No substances are subject to TSCA 12(b) export notification requirements.

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

### 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.

<b>SARA 311/312 Hazards</b>	: Acute toxicity (any route of exposure) Serious eye damage or eye irritation Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
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<b>SARA 302</b>	: This material does not contain any components with a section 302 EHS TPQ.
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<b>SARA 313</b>	: 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.
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## Clean Air Act

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 subject to disclosure and 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 I 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. CleanWater Act, Section 311, Table 116.4A.

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 toxic pollutants listed under the U.S. Clean Water Act Section 307

## US State Regulations

### Massachusetts Right To Know

Nitrioltriacetic acid

139-13-9

### Pennsylvania Right To Know

Diethylenetriaminepentaacetic acid	67-43-6
Nitrilotriacetic acid	139-13-9

## California Prop. 65



### WARNING:

This product can expose you to chemicals including Nitrilotriacetic acid, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. OTHER INFORMATION

### Full text of H-Statements

H320	: Causes eye irritation.
H332	: Harmful if inhaled.
H361	: Suspected of damaging fertility or the unborn child.
H373	: May cause damage to organs through prolonged or repeated exposure if inhaled.

### Full text of other abbreviations

OSHA Z-3	: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
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OSHA Z-3 / TWA	: 8-hour time weighted average
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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature;

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SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

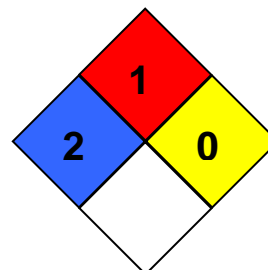
## Further information

### HMIS Classification

: Health Hazard: 2  
Chronic Health Hazard: \*  
Flammability: 2  
Physical hazards: 0

### NFPA Classification

: Health Hazard: 2  
Fire Hazard: 1  
Reactivity Hazard: 0



## Notification status explanation

REACH	1907/2006 (EU)
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
TCSI	Taiwan Chemical Substance Inventory (TCSI)
TSCA	United States TSCA Inventory

## Further information

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The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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

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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.