SILVER FERN CHEMICAL, INC.

SAFETY DATA SHEET

DIETHYLENETRIAMINE (DETA)

Revision Date 12/13/2021

1. IDENTIFICATION

Product name	DIETHYLENETRIAMINE (DETA)	
Product Use Description	Specific use(s):	Various industrial applications
Distributor	Silver Fern Chemical, Inc. 2226 Queen Anne Avenue North Seattle, WA 98109 United States	
Customer Service	1-866-282-3384	
Website	www.silverfernchemical.com	
E-mail address	info@silverfernchemical.com	
Emergency telephone	**Infotrac: +1-800-535-5053;** **Outside USA & Canada +1-352-323-3500**	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Clear liquid
Colour	colourless
Odour	ammoniacal

GHS Classification

Acute toxicity, Category 4, Oral
Acute toxicity, Category 2, Inhalation
Acute toxicity, Category 4, Dermal
Skin corrosion, Category 1B
Serious eye damage, Category 1
Skin sensitisation, Sub-category 1B
Specific target organ toxicity - single exposure, Category 3, Respiratory system
Short-term (acute) aquatic hazard, Category 3

GHS label elements

Hazard pictograms

Signal word Danger

Hazard statements	H302 + H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H330 Fatal if inhaled . H335 May cause respiratory irritation. H402 Harmful to aquatic life.
Precautionary statements	**Prevention:** P260 Do not breathe mist, vapours or spray. 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. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection / face protection. P284 Wear respiratory 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 + 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 . P333 + P313 If skin irritation or rash occurs: 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.

Carcinogenicity:

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Substance

Hazardous components

Chemical name	GAS-No.	Classification	Concentration [% W/W]
Diethylenetriamine	111-40-0	Acute Tox. 4; H302 Acute Tox. 2 ; H330 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 STOT SE 3; H335 Aquatic Acute 3; H402	>= 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
Immediate medical attention is required.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.

Inhalation
If breathed in, move person into fresh air.
Call a physician or poison control centre immediately.
Remove to fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.

Skin contact
Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water .
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If skin irritation persists, call a physician.

Eye contact
Rinse with plenty of water.
Get medical attention immediately. Continue to rinse during transport.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. Do not induce vomiting! May cause chemical burns in mouth and throat.

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	Harmful if swallowed or in contact with skin. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled . May cause respiratory irritation. Causes severe burns.
Treatment	Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting / Specific hazards arising from the chemical	Do not allow run-off from fire fighting to enter drains or water courses.
Combustion products	Carbon oxides Nitrogen oxides (NOx)
Special protective equipment for firefighters	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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment. Wear respiratory protection . Ensure adequate ventilation.
Emergency measures on accidental release	Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene.

	Prevent unauthorised persons entering the zone.
Environmental precautions	Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.
Methods for cleaning up / Methods for containment	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).
Reference to other sections	For disposal considerations see section 13. For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. 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	Avoid formation of aerosol.

Storage

Requirements for storage areas and containers	Prevent unauthorized access. Keep in a well-ventilated place. Reacts with copper, aluminium, zinc and their alloys.
Other data	No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Diethylenetriamine	111-40-0	TWA	1 ppm	ACGIH

		TWA	1 ppm 4 mg/m3	NIOSH REL
		TWA	1 ppm 4 mg/m3	OSHA PO
		PEL	1 ppm 4 mg/m3	CAL PEL

Engineering measures

Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection

In the case of vapour or aerosol formation use a respirator with an approved filter.
Wear full face mask supplied with:
Gas cartridge K (ammonia, green).

No personal respiratory protective equipment normally required.

Hand protection

Material	butyl-rubber
Break through time	> 30 min
Glove thickness	>= 0.2 mm
Directive	Protective gloves complying with EN 374.
Wearing time	< 30 min
Remarks	Wearing time< 30 minutes

Material	butyl-rubber
Break through time	> 240 min
Glove thickness	>= 0.6 mm
Directive	Protective gloves complying with EN 374.
Wearing time	< 240 min
Remarks	Wearing time< 240 minutes

Material	butyl-rubber
Break through time	> 480 min
Glove thickness	>= 0.8 mm
Directive	Protective gloves complying with EN 374.
Wearing time	< 480 min
Remarks	Wearing time< 480 minutes

Remarks

The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Protective suit

Hygiene measures	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

Environmental exposure controls

General advice	Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Colour	colourless
Odour	ammoniacal
Odour Threshold	No data available
pH	12 (68 °F / 20 °C) Concentration: 100 g/l
Melting point/range	-38 °F / -39 °c (1,013 hPa)
Boiling point/boiling range	405 °F / 207 °C (1,013 hPa)
Flash point	206.1 °F / 96.7 °C (1,013 hPa) Method: Pensky-Martens closed cup
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable
Flammability (liquids)	Not classified as a flammability hazard
Self-ignition	676 °F / 358 °C 1,013 hPa
Upper explosion limit / Upper flammability limit	10%(V)
Lower explosion limit /Lower flammability limit	1 %(V)
Vapour pressure	0.2 hPa (68 °F / 20 °C)

Relative vapour density	3.6
Relative density	0.959 (68 °F / 20 °C)
Density	0.957 g/cm3 (68 °F / 20 °C)
Solubility(ies)	
Water solubility	soluble
Solubility in other solvents	Soluble in alcohols and hydrocarbons.
Partition coefficient: n-octanol/water	log Pow: -1.58 (68 °F / 20 °C)
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	5.05 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	No data available
Explosive properties	Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing .

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

10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight.
Materials to avoid	Reacts with copper, aluminium, zinc and their alloys. Strong acids and oxidizing agents Halogenated compounds
Hazardous decomposition products	Nitrogen oxides (NOx)
Thermal decomposition	No data available
Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	Heating can release hazardous gases.

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary

Acute toxicity	Harmful if swallowed or in contact with skin. Fatal if inhaled.
Skin corrosion/irritation	Causes severe burns.
Serious eye damage /eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Respiratory sensitisation: Not classified based on available information. Skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Not classified based on available information.
Aspiration hazard	Not classified based on available information.

Potential Health Effects

Inhalation	Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Fatal if inhaled . May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation .
Skin	Symptoms may be delayed. Harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns.
Eyes	Causes serious eye damage.
Ingestion	Harmful if swallowed. May cause irritation of the mucous membranes. Causes burns.
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	No further data available.

Carcinogenicity:

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.

TOXICOLOGY DATA FOR THE COMPONENTS:

Test result

Component: Diethylenetriamine

Acute oral toxicity	LD50: > 300 - 2,000 mg/kg Species: Rat
Acute inhalation toxicity	LC50 (Rat):> 0.07 - 0.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist dust/mist
Acute dermal toxicity	LD50: > 1,000 - 2,000 mg/kg Species: Rabbit
Skin irritation	Result: Causes burns.
Eye irritation	Result: Risk of serious damage to eyes.
Sensitisation	Species: Mouse Result: The product is a skin sensitiser, sub-category 1B. Method: OECD Test Guideline 429
Germ cell mutagenicity Genotoxicity in vitro	Ames test Result: negative
Genotoxicity in *vivo*	Result: No evidence of genotoxic effects in *vivo*.
Target Organ Systemic Toxicant - Single exposure	Exposure routes: Inhalation Target Organs: Respiratory system May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological information	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Test result

Elimination information (persistence and degradability)

Bioaccumulation	Bioaccumulation is unlikely.
Mobility	Due to its physical and chemical properties, transport between environmental compartments is not expected
Biodegradability	Result: Readily biodegradable .

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
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: Diethylenetriamine

Ecotoxicity effects

Toxicity to fish	LC50: > 100 mg/l Exposure time: 96 h Species: Poecilia reticulata (guppy)
Toxicity to daphnia and other aquatic invertebrates	EC50: > 10-100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	EC50: > 100 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)

Elimination information (persistence and degradability)

Bioaccumulation	Not expected considering the low log Pow value.

Mobility	The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.
Biodegradability	Result: Readily biodegradable .

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

13. DISPOSAL CONSIDERATIONS

Product	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents /container in accordance with local regulation.
Contaminated packaging	Empty remaining contents. Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN /ID No.	UN 2079
Proper shipping name	Diethylenetriamine
Class	8
Packing group	II
Labels	8
Packing instruction (cargo aircraft)	855
Packing instruction (passenger aircraft)	851
Packing instruction (LO)	Y840
Environmentally hazardous	no

IMDG-Code

UN number	UN 2079
Proper shipping name	DIETHYLENETRIAMINE
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

Not applicable for product as supplied.

National Regulations

49CFR

UN/ID/NA number	UN 2079
Proper shipping name	Diethylenetriamine
Class	8
Packing group	II
Labels	8
ERG Code	154
Marine pollutant	no
Reportable Quantity	This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION

Notification status

TCSI	YES. On the inventory, or in compliance with the inventory
TSCA	YES. All substances listed as active on the TSCA inventory
AIIC	YES. On the inventory, or in compliance with the inventory
DSL	YES. All components of this product are on the Canadian DSL
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
NZIoC	YES. On the inventory, or in compliance with the inventory
TECI	NO. Not in compliance with the inventory

For explanation of abbreviation 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 .

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) Respiratory or skin sensitisation Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
SARA313	This material does not contain any chemical components with known GAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title 111, 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 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 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ethylenediamine	107-15-3	>= 0.1 - < 1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act , Section 311, Table 117.3:

Ethylenediamine	107-15-3	>= 0.1 - < 1 %

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

Diethylenetriamine	111-40-0

Pennsylvania Right To Know

Diethylenetriamine	111-40-0

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

Diethylenetriamine	111-40-0

California Permissible Exposure Limits for Chemical Contaminants

Diethylenetriamine	111-40-0

16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage .
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H402	Harmful to aquatic life.

Full text of otherabbreviations

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	USA. NIOSH Recommended Expo sure Limits

OSHA PO	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
ACGIH /TWA	8-hour , time-weighted average
CAL PEL / PEL	Permissible exposure limit
NIOSH REL/ TWA	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA PO / T WA	8-hour time weighted average

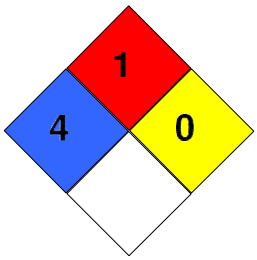
AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic 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 rateresponse; 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; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TOG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification	Health hazard: 3 Chronic Health Hazard: / Flammability: 1 Physical hazards : 0

NFPA Classification

Health hazard: 4
Fire Hazard: 1
Reactivity Hazard: 0



Notification status explanation

TCSI	Taiwan Chemical Substance Inventory (TCSI)
TSCA	United States TSCA Inventory
AIIC	Australian Inventory of Industrial Chemicals
DSL	Canadian Domestic Substances List (DSL)
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)
NZIoC	New Zealand. Inventory of Chemical Substances
TECI	Thailand Existing Chemicals Inventory (TECI)

Further information

Revision Date 12/13/2021

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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