 <b>Ashland</b> always solving		Page: 1
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29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : DEV PRODUCT SAMPLE ASI VIATEL PCL

Substance name Poly ε-caprolactone (PCL)

Substance No.

CAS-No. 24980-41-4

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Pharmaceutical

<p><b>Details of the supplier of the safety data sheet</b>  Ashland  P.O. Box 2219  Columbus, OH 43216  United States of America (USA)  1-614-790-3333 (USA)</p> <p>EHSProductSafety@ashland.com</p>	<p><b>Emergency telephone number</b>  1-800-ASHLAND (1-800-274-5263)</p> <p><b>Regulatory information</b>  1-614-790-3333 (customer service)</p> <p><b>Product Information</b>  1-614-790-3333 (USA)</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Combustible Dust :

Skin sensitization : Category 1

Reproductive toxicity : Category 2

**GHS label elements**



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Hazard pictograms



Signal Word

: Warning

Hazard Statements

: May form combustible dust concentrations in air.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

Precautionary Statements

: **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF ON SKIN: Wash with plenty of soap and water.  
IF exposed or concerned: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.  
**Storage:**  
Store locked up.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
POLYETHYLENE GLYCOL	25322-68-3	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom	50.00



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		2012).	
CAPROLACTONE	502-44-3	Eye Irrit. 2A; H319	1.00
STANNOUS OCTANOATE	301-10-0	Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 2; H361	0.10

#### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:



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redness of the skin  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 May cause an allergic skin reaction.  
 Suspected of damaging fertility or the unborn child.

Notes to physician : No hazards which require special first aid measures.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam

Unsuitable extinguishing media : High volume water jet

Hazardous combustion products : Carbon dioxide (CO2)  
 Carbon monoxide  
 Hydrocarbons  
 Alcohols  
 Ketones

Specific extinguishing methods :  
 Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 Ensure adequate ventilation.  
 Avoid dust formation.  
 Avoid breathing dust.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.



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- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

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## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.  
Take measures to prevent the build up of electrostatic charge.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid dust formation.  
Do not breathe vapours/dust.  
Do not smoke.  
Persons susceptible to 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.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
No smoking.
- Further information on storage stability : When stored in the original packaging at low temperatures (-15°C), recommended shelf life is three years.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
STANNOUS OCTANOATE	301-10-0	TWA	0.1 mg/m3 (Tin)	OSHA Z-1
		TWA	0.1 mg/m3 (Tin)	ACGIH
		STEL	0.2 mg/m3 (Tin)	ACGIH
		TWA	0.1 mg/m3 (Tin)	OSHA P0
		TWA	0.1 mg/m3 (Tin)	NIOSH REL
		PEL	0.1 mg/m3 (Tin)	CAL PEL
		STEL	0.2 mg/m3 (Tin)	CAL PEL
POLYETHYLENE GLYCOL	25322-68-3	TWA	10 mg/m3 aerosol	US WEEL

**Hazardous components without workplace control parameters**

Components	CAS-No.
CAPROLACTONE	502-44-3
STANNOUS OCTANOATE	301-10-0

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.  
Provide appropriate exhaust ventilation at places where dust is formed.

**Personal protective equipment**

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter within the capabilities of the respirator/filter combination.  
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

## Hand protection

Material : butyl-rubber  
Break through time : 480 min  
Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves



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should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Eye protection : Safety glasses
- Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).  
Wear as appropriate:  
Safety shoes  
Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.
- Hygiene measures : Avoid breathing dust.  
Wash hands before breaks and at the end of workday.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : granules
- Physical state : solid
- Colour : tan
- Odour : odourless
- Odour Threshold : Not applicable
- pH : Not applicable
- Melting point/freezing point : not determined
- Boiling point/boiling range : not determined
- Flash point : not determined
- Evaporation rate : Not applicable
- Upper explosion limit : Upper explosion limit not determined
- Lower explosion limit : Lower explosion limit not determined
- Vapour pressure : Not applicable
- Relative vapour density : Not applicable



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Relative density	: No data available
Density	: not determined
Solubility(ies)	
Water solubility	: not determined
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: not determined
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Oxidizing properties	: Not applicable

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## 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	: Product will not undergo hazardous polymerization.
Conditions to avoid	: excessive heat temperatures above 150 degrees F (66 °C)  Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: alkalis aluminum peroxides Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition products	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Hydrocarbons





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## Acetone

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

**Acute toxicity**

Not classified based on available information.

**Components:****POLYETHYLENE GLYCOL:**

Acute oral toxicity : LD50 (Rat): > 14,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg

**CAPROLACTONE:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 6,400 mg/kg

**STANNOUS OCTANOATE:**

Acute oral toxicity : LD50 (Rat): 3,400 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:****POLYETHYLENE GLYCOL:**

Species: Rabbit

Result: No skin irritation

**CAPROLACTONE:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation



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**STANNOUS OCTANOATE:**

Result: Slight, transient irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

**Components:****POLYETHYLENE GLYCOL:**

Species: Rabbit

Result: No eye irritation

**CAPROLACTONE:**

Result: Irritating to eyes.

Method: OECD Test Guideline 405

**STANNOUS OCTANOATE:**

Result: Corrosive

**Respiratory or skin sensitisation**

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

**Components:****POLYETHYLENE GLYCOL:**

Species: Humans

Assessment: Does not cause skin sensitisation.

**CAPROLACTONE:**

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

**STANNOUS OCTANOATE:**

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****POLYETHYLENE GLYCOL:**

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium



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Metabolic activation: with and without metabolic activation  
Result: negative

**CAPROLACTONE:**  
Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: dominant lethal test  
Test species: Rat  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

**STANNOUS OCTANOATE:**  
Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: negative  
Remarks: Information given is based on data obtained from similar substances.

### **Carcinogenicity**

Not classified based on available information.

#### **Components:**

**STANNOUS OCTANOATE:**  
Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

#### **Components:**

**CAPROLACTONE:**  
Effects on foetal development : Species: Rabbit  
Application Route: Oral  
Dose: 250 milligram per kilogram  
Symptoms: No specific developmental abnormalities  
Method: OECD Test Guideline 414


**STANNOUS OCTANOATE:**  
Effects on foetal development : Symptoms: Effects on foetal development, Reduced number of viable fetuses  
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

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Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No 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.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Not classified based on available information.

Long-term (chronic) aquatic hazard : Not classified based on available information.

**Components:**

**POLYETHYLENE GLYCOL:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 20,000 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): Estimated 1,000 mg/l  
Exposure time: 48 h  
Remarks: QSAR

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)):  
Estimated 56 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: QSAR



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**CAPROLACTONE:**

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 280 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 204 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 1,217 mg/l  
End point: Biomass  
Exposure time: 72 h

**STANNOUS OCTANOATE:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 116 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 19.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0.22 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**Persistence and degradability****Components:****POLYETHYLENE GLYCOL:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 75 %  
Exposure time: 28 d  
Remarks: QSAR

**CAPROLACTONE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 28 d

**STANNOUS OCTANOATE:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Information given is based on data obtained from



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similar substances.

No data available

**Bioaccumulative potential**

**Components:**

POLYETHYLENE GLYCOL:

Partition coefficient: n-octanol/water : log Pow: 0.1

CAPROLACTONE:

Partition coefficient: n-octanol/water : log Pow: 0.32

STANNOUS OCTANOATE:

Partition coefficient: n-octanol/water : log Pow: 2.67

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:**

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## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

General advice : Dispose of in accordance with all applicable local, state and federal regulations.

Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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**U.S. DOT - ROAD**

Not dangerous goods

**CFR\_RAIL\_C**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TDG\_ROAD\_C**

Not dangerous goods

**TDG\_RAIL\_C**

Not dangerous goods

**TDG\_INWT\_C**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MX\_DG**



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Not dangerous goods
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\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15. REGULATORY INFORMATION

### TSCA list

No substances are subject to a Significant New Use Rule.

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

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

#### 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 311/312 Hazards** : Combustible Dust  
Respiratory or skin sensitisation  
Reproductive toxicity

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

**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.

#### Pennsylvania Right To Know

Poly(ε-caprolactone) (PCL)	24980-41-4
POLYETHYLENE GLYCOL	25322-68-3
POLYETHYLENE GLYCOL MONOMETHYL	9004-74-4





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ETHER

**New Jersey Right To Know**

Poly(ε-caprolactone) (PCL)	24980-41-4
POLYETHYLENE GLYCOL	25322-68-3
POLYETHYLENE GLYCOL MONOMETHYL ETHER	9004-74-4
DEXTROSE	50-99-7
CAPROLACTONE	502-44-3

**California Prop. 65**

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

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

- TCSI : On the inventory, or in compliance with the inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- ISHL : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory
- NZIoC : Not in compliance with the inventory
- TSCA : This product is regulated under the United States Food and Drug Act (FDA).

**Inventories**



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AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

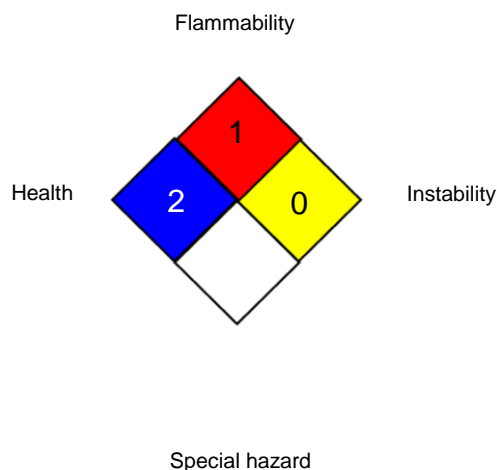
**Other regulations**

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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 H-Statements

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H361 Suspected of damaging fertility or the unborn child.

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response,



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

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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.

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