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## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : Performax™ MX1260  
 COOLING WATER TREATMENT  
 ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Industrial chemical

<b>Details of the supplier of the safety data sheet</b> Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)  RegulatoryRequestsNA@solenis.com	<b>Emergency telephone number</b> 1-844-SOLENIS (844-765-3647)  <b>Product Information</b> Contact your local Solenis representative
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with 29 CFR 1910.1200

Corrosive to metals : Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitisation : Category 1


### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

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Precautionary statements :

**Prevention:**

P234 Keep only in original container.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

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.  
P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**


None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
PHOSPHORIC ACID	7664-38-2	Met. Corr. 1; H290 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 5 - < 10
ZINC SULFATE	7733-02-0	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 1.5 - < 5


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POLYMER	Trade Secret	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	≥ 1.5 - < 5
ACRYLIC POLYMER	Trade Secret	Eye Irrit. 2A; H319	≥ 1.5 - < 5
TRIAZOLE DERIVATIVE	Trade Secret	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318	≥ 1.5 - < 5
ORGANIC ACID	Trade Secret	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335	≥ 0.1 - < 0.5

Actual concentration is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If breathed in, move person into fresh air.  
Keep patient warm and at rest.  
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.  
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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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:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Cough  
 lung edema (fluid buildup in the lung tissue)  
 Pulmonary edema may be delayed.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 Causes severe burns.

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  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.


Hazardous combustion products : Oxides of phosphorus  
 zinc oxide  
 Sulphur oxides  
 Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 nitrogen oxides (NO<sub>x</sub>)  
 hydrogen cyanide in reducing atmospheres

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

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- 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.


## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
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.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- 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
PHOSPHORIC ACID	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH

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		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0

**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.

#### Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:  
 Impervious clothing  
 Chemical resistant apron  
 Safety shoes  
 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.  
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 Ensure that eyewash stations and safety showers are close to the workstation location.  
 When using do not smoke.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aqueous solution


Colour : yellow

Odour : No data available

Odour Threshold : No data available

pH : 1.3 - 2.6

Melting point/freezing point : -4 - 5 °F / -20 - -15 °C

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Initial boiling point and boiling range : 210 - 225 °F / 99 - 107 °C

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1.25 g/cm<sup>3</sup> (72 °F / 22 °C)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 68 cps (72 °F / 22 °C)  
Method: Brookfield  
60 RPM

Viscosity, kinematic : No data available


Oxidizing properties : No data available

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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.

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Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat  
Exposure to moisture

Incompatible materials : Bases  
calcium salts  
Fluorine  
lead salts  
Metals  
nitrites  
nitromethane  
strong alkalis  
strong mineral acids  
Strong oxidizing agents  
strong reducing agents  
Sulphides  
sulphites

Hazardous decomposition products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Oxides of phosphorus  
Sulphur oxides  
Zinc oxide fumes.  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### **PHOSPHORIC ACID:**

Acute oral toxicity : LD 50 (Rat): ca. 2,600 mg/kg

Acute inhalation toxicity : Remarks: Corrosive to respiratory system.

Acute dermal toxicity : LD 50 (Rabbit): 2,740 mg/kg


#### **ZINC SULFATE:**

Acute oral toxicity : LD 50 (Rat): 1,710 mg/kg

Acute dermal toxicity : LD 50 (Rat): > 2,000 mg/kg

#### **POLYMER:**



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Acute oral toxicity : LD 50 (Rat): 12,500 mg/kg

**ACRYLIC POLYMER:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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

**TRIAZOLE DERIVATIVE:**

Acute oral toxicity : LD 50 (Rat, Female): 735 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg  
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

**ORGANIC ACID:**

Acute oral toxicity : LD50 (Rat): 708 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 0.72 mg/l  
 Exposure time: 1 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): 1,560 mg/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks : May cause skin irritation in susceptible persons.  
 Causes severe skin burns and eye damage.

**Components:**

**PHOSPHORIC ACID:**

Result : Corrosive to skin

**ZINC SULFATE:**


Result : Slightly irritating to skin

**POLYMER:**

Result : Irritating to skin

**ACRYLIC POLYMER:**

Result : Not irritating to skin

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**TRIAZOLE DERIVATIVE:**

Result : Corrosive to skin

**ORGANIC ACID:**

Result : Severely irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**PHOSPHORIC ACID:**

Result : Corrosive to eyes

**ZINC SULFATE:**

Species : Rabbit  
 Result : Corrosive to eyes  
 Method : OECD Test Guideline 405

**POLYMER:**

Result : Irritating to eyes

**ACRYLIC POLYMER:**

Result : Irritating to eyes

**TRIAZOLE DERIVATIVE:**

Result : Corrosive to eyes

**ORGANIC ACID:**

Result : Corrosive to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**


May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : May cause allergic skin reaction.

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#### **Components:**

##### **ORGANIC ACID:**

Test Type : Maximisation Test  
 Species : Guinea pig  
 Method : OECD Test Guideline 406  
 Result : May cause sensitisation by skin contact.  
 GLP : yes

##### **Germ cell mutagenicity**

Not classified based on available information.

##### **Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

##### **Reproductive toxicity**

Not classified based on available information.

##### **STOT - single exposure**

Not classified based on available information.

#### **Components:**

##### **ORGANIC ACID:**

Assessment : May cause respiratory irritation.

##### **STOT - repeated exposure**

Not classified based on available information.


##### **Aspiration toxicity**

Not classified based on available information.

##### **Further information**

#### **Product:**

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 780 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 500 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)): 301 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 125 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

#### Components:


#### **ZINC SULFATE:**

Toxicity to fish : LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 0.28 - 0.48 mg/l  
 Exposure time: 48 h  
 Method: Flow through  
 Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 0.89 - 1.4 mg/l  
 Exposure time: 48 h  
 Method: Static  
 Remarks: Intoxication

EC 50 (Water flea (Daphnia magna)): 0.538 - 0.908 mg/l  
 Exposure time: 48 h  
 Method: Static  
 Remarks: Intoxication

Toxicity to algae/aquatic plants : (Green algae (Chlorella vulgaris)): 3 - 45 mg/l  
 End point: LC 50  
 Exposure time: 24 h  
 Method: Static  
 Remarks: Mortality

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#### POLYMER:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,060 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 530 mg/l  
Exposure time: 48 h

#### ACRYLIC POLYMER:

##### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### TRIAZOLE DERIVATIVE:

Toxicity to fish : LC 50 (Lepomis macrochirus (Bluegill sunfish)): > 173 mg/l  
Exposure time: 96 h

LC 50 (Oncorhynchus mykiss (rainbow trout)): ca. 25 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 280 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 26.2 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

EbC50 (Pseudokirchneriella subcapitata (green algae)): 32 mg/l  
Exposure time: 96 h  
Test Type: Growth inhibition


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Water flea (Daphnia magna)): 0.4 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
Remarks: Information given is based on data obtained from similar substances.

#### ORGANIC ACID:

Toxicity to fish : LC 50 (Leuciscus idus (Golden orfe)): 106 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): 42.81 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 74.35

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plants

mg/l

End point: Growth inhibition

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

### Persistence and degradability

#### Components:

##### **TRIAZOLE DERIVATIVE:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301F

##### **ORGANIC ACID:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

##### **ZINC SULFATE:**

Bioaccumulation : Species: Green algae (Chlorella vulgaris)  
Bioconcentration factor (BCF): 1,921  
Exposure time: 21 d  
Concentration: 35.5 mg/l  
Method: Static

##### **ACRYLIC POLYMER:**

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

##### **TRIAZOLE DERIVATIVE:**


Partition coefficient: n-octanol/water : log Pow: 0.658

##### **ORGANIC ACID:**

Partition coefficient: n-octanol/water : log Pow: -0.48

### Mobility in soil

No data available

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#### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : 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.  
Send to a licensed waste management company.
- Dispose of in accordance with all applicable local, state and federal regulations.
- 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.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

- UN number : UN 3264
- Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, ZINC SULFATE)
- Class : 8
- Packing group : III
- Packing instruction (cargo aircraft) : 856
- Packing instruction (passenger aircraft) : 852


##### IMDG-Code

- UN number : UN 3264
- Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, ZINC SULFATE)
- Class : 8
- Packing group : III
- EmS Code : F-A, S-B
- Marine pollutant : yes

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

Not applicable for product as supplied.

#### National Regulations

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#### 49 CFR

UN number : UN 3264  
 Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, ZINC SULFATE)  
 Class : 8  
 Packing group : III  
 ERG Code : 154  
 Marine pollutant : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### SECTION 15. REGULATORY INFORMATION

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ZINC SULFATE	7733-02-0	1000	20506

##### 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** : Corrosive to metals  
 Respiratory or skin sensitization  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

ZINC SULFATE 7733-02-0 4.88 %

The following components are subject to reporting levels established by SARA Title III, Section 313:

ZINC SULFATE 7733-02-0 >= 1 - < 5 %

#### California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.


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

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

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



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

ENCS : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

#### TSCA list

No substances are subject to a Significant New Use Rule.

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

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## SECTION 16. OTHER INFORMATION

### Further information


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### Full text of H-Statements

H290 : May be corrosive to metals.  
 H302 : Harmful if swallowed.  
 H312 : Harmful in contact with skin.  
 H314 : Causes severe skin burns and eye damage.  
 H315 : Causes skin irritation.  
 H317 : May cause an allergic skin reaction.  
 H318 : Causes serious eye damage.  
 H319 : Causes serious eye irritation.  
 H335 : May cause respiratory irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
 Eye Dam. : Serious eye damage  
 Eye Irrit. : Eye irritation  
 Met. Corr. : Corrosive to metals  
 Skin Corr. : Skin corrosion  
 Skin Irrit. : Skin irritation  
 Skin Sens. : Skin sensitisation  
 STOT SE : Specific target organ toxicity - single exposure  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

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ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA P0 / STEL : Short-term exposure limit  
 OSHA Z-1 / TWA : 8-hour time weighted average

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 - 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


Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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