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SECTION 1. IDENTIFICATION

Product identifier

Trade name : Performax™ MX2407
COOLING WATER TREATMENT
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Recommended use of the chemical and restrictions on use

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


GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitisation : Category 1


GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.

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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.

Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
TRIPOTASSIUM PHOSPHATE	7778-53-2	Eye Dam. 1; H318 STOT SE 3; H335	>= 5 - < 10
POLYMER	Trade Secret	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>= 1.5 - < 5
potassium hydroxide	1310-58-3	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 3 - < 5
TRIAZOLE DERIVATIVE	Trade Secret	Acute Tox. 4; H302 Eye Irrit. 2A; H319 STOT SE 3; H335	>= 1.5 - < 5
CORROSION/SCALE INHIBITOR	Trade Secret	Skin Sens. 1; H317	>= 1.5 - < 5

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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
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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.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.
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)

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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 (CO2)
 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 : Phosphorus compounds
 potassium oxide
 Carbon monoxide
 Carbon dioxide (CO2)
 nitrogen oxides (NOx)
 toxic fumes
- 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.
 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

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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.
When diluting, always add the product to water. Never add water to the product.
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.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
potassium hydroxide	1310-58-3	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		C	2 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

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- 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 : liquid
- Colour : yellow
- Odour : No data available
- Odour Threshold : No data available
- pH : 12.22
- Melting point/freezing point : -10 - 2 °C
- Initial boiling point and boiling range : 100 °C
- Flash point : does not flash
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- Upper explosion limit : No data available
- Lower explosion limit : No data available
- Vapour pressure : No data available
- Relative vapour density : No data available
- Relative density : No data available

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Density : 1.188 g/cm³ (23 °C)
 Solubility(ies)
 Water solubility : No data available
 Solubility in other solvents : No data available
 Partition coefficient: n-
 octanol/water : No data available
 Decomposition temperature : No data available
 Viscosity
 Viscosity, dynamic : 18 mPa.s (23 °C)
 Viscosity, kinematic : No data available
 Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.
 Chemical stability : Stable under recommended storage conditions.
 Possibility of hazardous
 reactions : Product will not undergo hazardous polymerization.
 Incompatible materials : Acids
 Alcohols
 aluminum
 Amines
 chlorinated solvents
 halogenated hydrocarbons
 Metals
 nitrites
 Reducing agents
 strong alkalis
 Strong oxidizing agents
 water
 Zinc
 Hazardous decomposition
 products : **potassium oxide**
 Oxides of phosphorus
 Carbon monoxide
 Carbon dioxide (CO₂)
 Nitrogen oxides (NO_x)
 toxic fumes
 Carbon oxides

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SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:**TRIPOTASSIUM PHOSPHATE:**

Acute oral toxicity : LD50 (Rat): 4,260 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 0.83 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation
under GHS.
Remarks: Information given is based on data obtained from
similar substances.

Acute dermal toxicity : LD 50 (Rabbit): > 7,970 mg/kg
Test substance: (as aqueous solution)

POLYMER:

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

potassium hydroxide:

Acute oral toxicity : LD 50 (Rat): 333 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): 1,260 mg/kg


TRIAZOLE DERIVATIVE:

Acute oral toxicity : LD 50 (Rat): 675 mg/kg
Remarks: Information given is based on data obtained from
similar substances.

Acute dermal toxicity : LD (Rabbit): > 4,000 mg/kg
Remarks: Information given is based on data obtained from
similar substances.

CORROSION/SCALE INHIBITOR:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Assessment: No adverse effect has been observed in acute

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oral toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

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.
The feeling of irritation or pain may be delayed.

Components:

TRIPOTASSIUM PHOSPHATE:

Species: reconstructed human epidermis (RhE)
Method: OECD Test Guideline 439
Result: Not irritating to skin

POLYMER:

Result: Irritating to skin

potassium hydroxide:

Result: Corrosive to skin

TRIAZOLE DERIVATIVE:

Species: Rabbit
Result: Slightly irritating to skin
Remarks: Information given is based on data obtained from similar substances.

CORROSION/SCALE INHIBITOR:

Result: Slightly irritating to skin

ORGANIC ACID:

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Result: Severely irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:**TRIPOTASSIUM PHOSPHATE:**

Result: Corrosive to eyes

POLYMER:

Result: Irritating to eyes

potassium hydroxide:

Result: Corrosive to eyes

TRIAZOLE DERIVATIVE:

Species: Rabbit

Result: Irritating to eyes

Remarks: Information given is based on data obtained from similar substances.

CORROSION/SCALE INHIBITOR:

Result: Slightly irritating 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.

Components:**TRIPOTASSIUM PHOSPHATE:**

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

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Remarks: Information given is based on data obtained from similar substances.

TRIAZOLE DERIVATIVE:

Species: Guinea pig

Remarks: Information given is based on data obtained from similar substances.

CORROSION/SCALE INHIBITOR:

Species: Guinea pig

Method: Maximisation Test

ORGANIC ACID:

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitization by skin contact.

GLP: yes


Germ cell mutagenicity

Not classified based on available information.

Components:

TRIAZOLE DERIVATIVE:

- Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with metabolic activation
 Result: positive
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: in vitro assay
 Species: mammalian cells
 Metabolic activation: without metabolic activation
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: Chromosome aberration test in vitro
 Species: mammalian cells
 Metabolic activation: with and without metabolic activation
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.
- : Test Type: Ames test
 Metabolic activation: without metabolic activation
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

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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 identified as a carcinogen or potential carcinogen by OSHA.

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:

TRIPOTASSIUM PHOSPHATE:

Exposure routes: Inhalation
 Target Organs: Respiratory Tract
 Assessment: May cause respiratory irritation.

TRIAZOLE DERIVATIVE:

Exposure routes: Inhalation
 Target Organs: Respiratory Tract
 Assessment: May cause respiratory irritation.

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 daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

TRIPOTASSIUM PHOSPHATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (Daphnia magna)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

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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 : EC50 (Water flea (Daphnia magna)): 530 mg/l
 aquatic invertebrates Exposure time: 48 h

potassium hydroxide:

Toxicity to fish : LC 50 (Western mosquitofish (Gambusia affinis)): 80 mg/l
 Exposure time: 96 h
 Method: Static
 Remarks: Mortality

CORROSION/SCALE INHIBITOR:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 1,000 mg/l
 aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (Aquatic plants): > 100 mg/l
 Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2


Chronic aquatic toxicity : Chronic aquatic toxicity Category 2

ORGANIC ACID:

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

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

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 74.35
 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

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Persistence and degradability

Components:

TRIPOTASSIUM PHOSPHATE:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

ORGANIC ACID:

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

Bioaccumulative potential

Components:

ORGANIC ACID:

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

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : 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.

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 transport regulations
REGULATION**

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

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
----	------	--	---	--	-----

U.S. DOT - RAIL

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
----	------	--	---	--	-----

U.S. DOT - INLAND WATERWAYS

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
----	------	--	---	--	-----

TRANSPORT CANADA - ROAD

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
----	------	--	---	--	-----

TRANSPORT CANADA - RAIL

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
----	------	--	---	--	-----

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8		III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8	III
----	------	--	---	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3266	Corrosive liquid, basic, inorganic, n.o.s. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8	III
----	------	--	---	-----

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3266	LIQUIDO CORROSIVO, BASICO, INORGANICO, N.E.P. (TRIPOTASSIUM PHOSPHATE, POTASSIUM HYDROXIDE)	8	III
----	------	---	---	-----

*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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
potassium hydroxide	1310-58-3	1000	26298


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 : Skin corrosion or irritation
 Serious eye damage or eye irritation

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Respiratory or skin sensitization

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.

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:

- DSL : All components of this product are on the Canadian DSL
- AICS : Not in compliance with the inventory
- 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
- TCSI : Not in compliance with the inventory
- TSCA : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

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

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

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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

Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

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.

Full text of other abbreviations

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; KECl - 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

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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

US / EN