

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

Performax™ MX2408 COOLING WATER
TREATMENT™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
865978**SECTION 1. IDENTIFICATION****Product identifier**

Trade name

: Performax™ MX2408
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 : COOLING WATER TREATMENT

Details of the supplier of the safety data sheet

Solenis LLC
500 Hercules Road
Wilmington, Delaware 19808
United States of America (USA)

EHSProductSafetyTeam@solenis.com

Emergency telephone number
1-844-SOLENIS (844-765-3647)**Product Information**

Contact your local Solenis representative

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Corrosive to metals : Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitisation : Category 1

GHS label elementsHazard 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.

SAFETY DATA SHEET

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865978
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 (%)
POLYMER SOLUTION	26099-09-2	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	>= 5 - < 10
potassium hydroxide	1310-58-3	Met. Corr. 1; H290	>= 5 - < 10

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

**Performax™ MX2408 COOLING WATER
TREATMENT**

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 865978

		Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318	
TRIAZOLE DERIVATIVE	Trade Secret	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 1.5 - < 5
CORROSION/SCALE INHIBITOR	Trade Secret	Skin Sens. 1; H317	>= 1 - < 1.5
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	>= 0.5 - < 1

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.

SAFETY DATA SHEET

Revision Date: 08/22/2022

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SDS Number: 000000261499

Version: 1.7

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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)
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 | : <ul style="list-style-type: none"> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO₂) Dry chemical |
| Unsuitable extinguishing media | : <ul style="list-style-type: none"> High volume water jet |
| Specific hazards during firefighting | : <ul style="list-style-type: none"> Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : <ul style="list-style-type: none"> Carbon monoxide Carbon dioxide (CO₂) potassium oxide nitrogen oxides (NO_x) toxic fumes |
| Specific extinguishing methods | : <ul style="list-style-type: none"> Product is compatible with standard fire-fighting agents. |
| Further information | : <ul style="list-style-type: none"> Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : <ul style="list-style-type: none"> In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions,
protective equipment and
emergency procedures | : <ul style="list-style-type: none"> Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. |
|---|---|

SAFETY DATA SHEET

Revision Date: 08/22/2022

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SDS Number: 000000261499

Version: 1.7

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 865978

Comply with all applicable federal, state, and local regulations.

- | | |
|---|---|
| Environmental precautions | : <ul style="list-style-type: none"> 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 | : <ul style="list-style-type: none"> Keep in suitable, closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

- | | |
|---|---|
| Advice on protection against fire and explosion | : <ul style="list-style-type: none"> Normal measures for preventive fire protection. |
| Advice on safe handling | : <ul style="list-style-type: none"> Do not breathe vapours/dust. Do not smoke. When diluting, always add the product to water. Never add water to the product. 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 | : <ul style="list-style-type: none"> 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 | : <ul style="list-style-type: none"> 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
potassium hydroxide	1310-58-3	C	2 mg/m3	ACGIH

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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TREATMENT

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		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

Material : Nitrile rubber

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.
Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

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

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pH	:	12.0 - 12.5
Melting point/freezing point	:	14 - 36 °F / -10 - 2 °C
Initial boiling point and boiling range	:	212 °F / 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 / 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	:	1.184 g/cm3 (73 °F / 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 (73 °F / 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.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization.
Incompatible materials	: Acids Alcohols Amines chlorinated solvents halogenated hydrocarbons Metals nitrites Reducing agents strong alkalis Strong oxidizing agents Zinc
Hazardous decomposition products	: Carbon monoxide Carbon dioxide (CO ₂) potassium oxide Nitrogen oxides (NO _x) toxic fumes Oxides of phosphorus Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Components:**POLYMER SOLUTION:**

Acute oral toxicity : LD50 (Rat): 12,500 mg/kg

potassium hydroxide:

Acute oral toxicity : LD50 (Rat): 333 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 1,260 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.**TRIAZOLE DERIVATIVE:**Acute oral toxicity : LD50 (Rat, male): 930 mg/kg
Remarks: Information given is based on data obtained from similar substances.
LD50 (Rat): 675 mg/kg

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

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

LD50 (Rat, female): 735 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 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 : LD50 (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:**POLYMER SOLUTION:**

Result : Irritating to skin

potassium hydroxide:

Result : Corrosive to skin

TRIAZOLE DERIVATIVE:

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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TREATMENT

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Species	:	Rabbit
Result	:	Corrosive after 3 minutes to 1 hour of exposure
Remarks	:	Information given is based on data obtained from similar substances.

CORROSION/SCALE INHIBITOR:

Result : Slightly irritating 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:

POLYMER SOLUTION:

Result : Irritating to eyes

potassium hydroxide:

Result : Corrosive to eyes

TRIAZOLE DERIVATIVE:

Species	:	Rabbit
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.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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TREATMENT

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865978

Components:

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 sensitisation 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
Test system: 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
Test system: 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

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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TREATMENT

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865978

similar substances.

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

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.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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TREATMENT

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865978

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:

POLYMER SOLUTION:

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

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

potassium hydroxide:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

TRIAZOLE DERIVATIVE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 180 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on similar product.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8.58 mg/l
Exposure time: 48 h
Remarks: Based on similar product.

CORROSION/SCALE INHIBITOR:

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

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

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

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

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

ORGANIC ACID:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 106 mg/l
Exposure time: 48 h

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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865978**Toxicity to daphnia and other
aquatic invertebrates** : EC50 (Daphnia magna (Water flea)): 42.81 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

**Toxicity to algae/aquatic
plants** : 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

Persistence and degradability**Components:****potassium hydroxide:****Biodegradability** : Result: 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**Product:**Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

Revision Date: 08/22/2022

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TREATMENT

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- | | |
|------------------------|--|
| Waste from residues | : Dispose of in accordance with all applicable local, state and federal regulations. |
| | 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. |
| 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 3266 |
| Proper shipping name | : Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE) |
| Class | : 8 |
| Packing group | : III |
| Packing instruction (cargo aircraft) | : 856 |
| Packing instruction (passenger aircraft) | : 852 |
| Marine pollutant | : no |

IMDG-Code

- | | |
|----------------------|--|
| UN number | : UN 3266 |
| Proper shipping name | : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE) |
| Class | : 8 |
| Packing group | : III |
| 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

49 CFR

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

Performax™ MX2408 COOLING WATER
TREATMENT

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865978

UN number	:	UN 3266
Proper shipping name	:	Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE)
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)
potassium hydroxide	1310-58-3	1000	14514

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

TSCA : All substances listed as active on the TSCA inventory

AICS : Exempt

SAFETY DATA SHEET

Revision Date: 08/22/2022

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TREATMENT

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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
NZIoC	: 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.

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 08/22/2022

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. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / C	: Ceiling limit

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 09/23/2022

SDS Number: 000000261499

Version: 1.7

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NIOSH REL / C : Ceiling value not be exceeded at any time.
OSHA P0 / C : Ceiling limit

AIIC - Australian Inventory of Industrial Chemicals; 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; 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

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.

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.



Page: 19

SAFETY DATA SHEET

Revision Date: 08/22/2022

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