

SAFETY DATA SHEET

Revision Date: 05/07/2021

Print Date: 08/10/2022

SDS Number: 000000261548

Version: 1.5

Performax™ MX2408 COOLING WATER
TREATMENT™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
866161**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****Details of the supplier of the safety data sheet**
Solenis Canada ULC
942 Brant St.
Burlington, ON L7R 3X8
Canada

RegulatoryRequestsNA@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 Hazardous Products Regulations**

Skin corrosion : Category 1

Serious eye damage : Category 1

Skin sensitisation : Category 1

GHS label elementsHazard 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.

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.

P362 + P364 Take off contaminated clothing and wash it 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

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
1H-Benzotriazole, 4(or 5)-methyl-, potassium salt	64665-53-8	>= 1.5 - < 5
PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT	180513-31-9	>= 1 - < 1.5

Actual concentration or concentration range 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.

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- 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 : No symptoms known or expected.
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 (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 : Carbon monoxide
Carbon dioxide (CO₂)
nitrogen oxides (NO_x)
toxic fumes

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- 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

- 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.
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.

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Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Respiratory protection : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	12 - 12.5
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 / 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/cm ³ (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		

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Viscosity, dynamic : No data available

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 : Reducing agents
strong mineral acids
Strong oxidizing agentsHazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
toxic fumes
Oxides of phosphorus
Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Components:**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**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
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.

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PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT:

- | | | |
|-----------------------|---|--|
| 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. |

Skin corrosion/irritation

Causes severe burns.

Product:

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

Components:

1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:

- | | | |
|---------|---|--|
| Species | : | Rabbit |
| Remarks | : | Information given is based on data obtained from similar substances. |

PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT:

- | | | |
|--------|---|-----------------------------|
| Result | : | Slightly irritating to skin |
|--------|---|-----------------------------|

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

- | | | |
|---------|---|------------------------------------|
| Remarks | : | May cause irreversible eye damage. |
|---------|---|------------------------------------|

Components:

1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:

- | | | |
|---------|---|--|
| Species | : | Rabbit |
| Remarks | : | Information given is based on data obtained from similar substances. |

PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT:

- | | | |
|--------|---|-----------------------------|
| Result | : | Slightly irritating to eyes |
|--------|---|-----------------------------|

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : May cause allergic skin reaction.

Components:

1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:

Species

: Guinea pig

Remarks

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

PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT:

Species : Guinea pig

Method : Maximisation Test

Germ cell mutagenicity

Not classified based on available information.

Components:

1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:

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 similar substances.

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Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

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

Components:**1H-Benzotriazole, 4(or 5)-methyl-, potassium salt:**

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.

PHOSPHONIC ACID SODIUM SALT / MALEIC ANHYDRIDE RXN PRODUCT:

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 : EC50 (Aquatic plants): > 100 mg/l

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	HYDROXIDE)
Class	: 8
Packing group	: III
Packing instruction (cargo aircraft)	: 856
Packing instruction (passenger aircraft)	: 852
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

TDG

UN number	: UN 3266
Proper shipping name	: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)
Class	: 8
Packing group	: III
ERG Code	: 154

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

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

DSL	: This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.
AICS	: Not in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory

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TCSI : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 05/07/2021

Full text of other abbreviations

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

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

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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.

CA / EN