

SAFETY DATA SHEET

Revision Date: 11/25/2021

Print Date: 08/16/2022

SDS Number: 000000262759

Version: 1.3

Performax™ SR8315 Water Treatment Chemical
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
873086

SECTION 1. IDENTIFICATION**Product identifier**

Trade name : Performax™ SR8315
Water Treatment Chemical
™ 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

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**

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.

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P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS	68081-81-2	>= 10 - < 15
SORBITAN MONOSTEARATE	1338-41-6	>= 1.5 - < 5
SODIUM XYLENE SULFONATE	1300-72-7	>= 1 - < 1.5
SORBITAN MONOSTEARATE 5 POLYETHOXYLATE	9005-67-8	>= 1 - < 1.5

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- | | |
|----------------|---|
| General advice | : <p>Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.</p> |
| If inhaled | : <p>Move to fresh air.
 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.</p> |

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Keep patient warm and at rest.
 If unconscious, place in recovery position and seek medical advice.

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 : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 Causes skin irritation.
 Causes serious eye irritation.
 Harmful if inhaled.

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)
 sulfur oxides
 formaldehyde
 Hydrocarbons
 Sulphur oxides

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

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methods

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

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation. 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 : Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. 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. Electrical installations / working materials must comply with the technological safety standards.

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

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SORBITAN MONOSTEARATE	1338-41-6	TWA	10 mg/m ³	CA AB OEL
		TWA	10 mg/m ³	CA BC OEL
SORBITAN MONOSTEARATE 5 POLYETHOXYLATE	9005-67-8	TWA	10 mg/m ³	CA AB OEL
		TWA	10 mg/m ³	CA BC OEL

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 : In the case of vapour formation use a respirator with an approved filter.
 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 : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Choose body protection according to the amount and

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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.
 When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	off-white
Odour	:	No data available
Odour Threshold	:	No data available
pH	:	6.3
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
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	:	1.024 (21 °C)
Density	:	No data available
Solubility(ies)	:	

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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	:	580 mPa.s (21 °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.
Conditions to avoid	:	excessive heat
Incompatible materials	:	Acids Oxidizing agents None known. Acids Oxidizing agents
Hazardous decomposition products	:	Carbon monoxide Carbon dioxide (CO ₂) Sulphur oxides Formaldehyde Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if inhaled.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Acute oral toxicity	:	LD50 (Rat, male and female): 1,470 mg/kg Method: OECD Test Guideline 401
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GLP: yes

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

Acute inhalation toxicity : LC 50: 0.31 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
 Symptoms: Erythema, Oedema, Necrosis
 GLP: no
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.
 Remarks: Information given is based on data obtained from similar substances.

SODIUM XYLENE SULFONATE:

Acute oral toxicity : LD50 (Rat): > 7,000 mg/kg

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

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Species : Rabbit
 Method : OECD Test Guideline 404
 Result : Irritating to skin
 GLP : yes
 Remarks : Information given is based on data obtained from similar substances.

SORBITAN MONOSTEARATE:

Result : Mildly irritating to skin

SODIUM XYLENE SULFONATE:

Species : Rabbit
 Method : OECD Test Guideline 404
 Result : Mild skin irritation

SORBITAN MONOSTEARATE 5 POLYETHOXYLATE:

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Result : Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.
Causes serious eye irritation.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Species : Rabbit
Result : Irritating to eyes
Method : OECD Test Guideline 405
GLP : no
Remarks : Information given is based on data obtained from similar substances.

SORBITAN MONOSTEARATE:

Result : Mildly irritating to eyes

SODIUM XYLENE SULFONATE:

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

SORBITAN MONOSTEARATE 5 POLYETHOXYLATE:

Result : Not irritating to eyes

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
GLP : yes
Remarks : Information given is based on data obtained from similar substances.

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Germ cell mutagenicity

Not classified based on available information.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Genotoxicity in vitro	: Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative GLP: yes Remarks: Information given is based on data obtained from similar substances.
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes Remarks: Information given is based on data obtained from similar substances.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:**BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:****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)): 33 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 25 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)): 122 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 GLP: no

Components:

BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 5.6 mg/l
 Exposure time: 96 h
 Test Type: flow-through 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 (Daphnia magna (Water flea)): ca. 4.1 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : IC50 (Aquatic plants): ca. 9.1 mg/l
 Exposure time: 72 h
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.25 - 3.2 mg/l
 Exposure time: 28 d
 Analytical monitoring: no
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): ca. 1.4 mg/l
 Remarks: Information given is based on data obtained from similar substances.

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SORBITAN MONOSTEARATE:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 1,000 mg/l
Exposure time: 96 h

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

Persistence and degradability**Components:****BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 28 d
Remarks: Information given is based on data obtained from similar substances.

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 69 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Information given is based on data obtained from similar substances.

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 93 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.A.
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

SORBITAN MONOSTEARATE:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Components:****BENZENESULFONIC ACID, C10-16-ALKYL DERIVS., SODIUM SALTS:**

Bioaccumulation : Species: Leuciscus idus (Golden orfe)
Bioconcentration factor (BCF): 130
Exposure time: 3 d
GLP: no

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Species: Fish
Biconcentration factor (BCF): 22 - 87
Exposure time: 2 d
Method: OECD Test Guideline 305
GLP: yes

Partition coefficient: n-octanol/water : log Pow: 2 (23 °C)
Method: OECD Test Guideline 107

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.

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**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations**TDG**

Not regulated as a dangerous good

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:**

TCSI	: Not in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
NZIOC	: On the inventory, or in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 11/25/2021

Full text of other abbreviations

CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	: Canada. British Columbia OEL
CA AB OEL / TWA	: 8-hour Occupational exposure limit

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CA BC OEL / TWA : 8-hour time weighted average

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

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