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SECTION 1. IDENTIFICATION

Product identifier

Trade name : Enviroplus™ 325 CORROSION INHIBITOR
 ™ 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 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
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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
 Reproductive toxicity : Category 1B

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H360 May damage fertility or the unborn child.

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Precautionary statements

:

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
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 (%)
INORGANIC SALT	Trade Secret	Met. Corr. 1; H290 Skin Corr. 1; H314	≥ 5 - < 10

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		Eye Dam. 1; H318 STOT SE 3; H335	
INORGANIC SALT	Trade Secret	Eye Irrit. 2A; H319 Repr. 1B; H360	$\geq 5 - < 10$
TRIAZOLE DERIVATIVE	Trade Secret	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	$\geq 1.5 - < 5$
ORGANIC SALT	Trade Secret	Skin Irrit. 2; H315 Eye Irrit. 2A; H319	$\geq 1.5 - < 5$
CORROSION/SCALE INHIBITOR	Trade Secret	Skin Sens. 1; H317	$\geq 1 - < 1.5$
THIAZOLE COMPOUND	Trade Secret	Met. Corr. 1; H290 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	$\geq 0.5 - < 1$

INORGANIC SALT	Trade Secret	Met. Corr. 1; H290 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT SE 3; H335	$\geq 5 - < 10$
INORGANIC SALT	Trade Secret	Eye Irrit. 2A; H319 Repr. 1B; H360	$\geq 5 - < 10$
TRIAZOLE DERIVATIVE	Trade Secret	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	$\geq 1.5 - < 5$
ORGANIC SALT	Trade Secret	Skin Irrit. 2; H315 Eye Irrit. 2A; H319	$\geq 1.5 - < 5$
CORROSION/SCALE INHIBITOR	Trade Secret	Skin Sens. 1; H317	$\geq 1 - < 1.5$
THIAZOLE COMPOUND	Trade Secret	Met. Corr. 1; H290 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	$\geq 0.5 - < 1$

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.


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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 | : 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)
Nose bleeding
hair loss
May cause an allergic skin reaction.
Causes serious eye damage.
May damage fertility or the unborn child.
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 |
|------------------------------|--|

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- 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 oxides
Nitrogen oxides (NOx)
potassium oxide
- 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.
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 : 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.

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Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION


Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
INORGANIC SALT	Trade Secret	TWA	5 mg/m3	NIOSH REL
		TWA	10 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m3 (Borate)	ACGIH

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

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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 and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

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 : dark amber

Odour :


No data available

Odour Threshold : No data available

pH : 12.5

Melting point/freezing point : 45.99 °F / 7.77 °C


Boiling point/boiling range : 212 °F / 100 °C
(1,013.333333 hPa)
Calculated Phase Transition Liquid/Gas

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Flash point	:	Not applicable
Evaporation rate	:	> 1 Ethyl Ether
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	:	32 hPa (77 °F / 25 °C) Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.24 g/cm3 (77 °F / 25 °C)
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
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.
Conditions to avoid	:	temperature extremes Freezing temperatures.

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Incompatible materials : Alkali metals
Alkaline earth metals
metal hydrides
metal salts
Strong acids
Strong oxidizing agents
strong reducing agents

Hazardous decomposition products : Carbon oxides
Nitrogen oxides (NOx)
potassium oxide
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

INORGANIC SALT:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OPPTS 870.1100
Assessment: No adverse effect has been observed in acute oral toxicity tests.


Acute inhalation toxicity : LC50 (Rat, male and female): > 2.06 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OPPTS 870.1300
GLP: yes
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

INORGANIC SALT:

Acute oral toxicity : LD50 (Rat): 4,500 - 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 2 mg/l
Test atmosphere: dust/mist
Assessment: Not classified as acutely toxic by inhalation under GHS.
Remarks: see user defined free text

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Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

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
 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.

THIAZOLE COMPOUND:

Acute oral toxicity : LD50 (Rat): 2,100 mg/kg


Acute inhalation toxicity : LC 50 (Rat): > 6.5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

INORGANIC SALT:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
 Method: OPPTS 870.1100
 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.06 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: OPPTS 870.1300
 GLP: yes
 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
 Method: OECD Test Guideline 402
 GLP: yes
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

INORGANIC SALT:

Acute oral toxicity : LD50 (Rat): 4,500 - 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 2 mg/l
 Test atmosphere: dust/mist
 Assessment: Not classified as acutely toxic by inhalation under GHS.
 Remarks: see user defined free text

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

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
 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.

THIAZOLE COMPOUND:

Acute oral toxicity : LD50 (Rat): 2,100 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 6.5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist

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Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

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

Components:

INORGANIC SALT:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive to skin
GLP : yes

INORGANIC SALT:

Result : Not irritating to skin

TRIAZOLE DERIVATIVE:

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

ORGANIC SALT:

Result : Irritating to skin

CORROSION/SCALE INHIBITOR:

Result : Slightly irritating to skin

THIAZOLE COMPOUND:


Species : Rabbit
Result : Corrosive after 1 to 4 hours of exposure

INORGANIC SALT:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive to skin
GLP : yes

INORGANIC SALT:

Result : Not irritating to skin

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TRIAZOLE DERIVATIVE:

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

ORGANIC SALT:

Result : Irritating to skin

CORROSION/SCALE INHIBITOR:

Result : Slightly irritating to skin

THIAZOLE COMPOUND:

Species : Rabbit
Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

INORGANIC SALT:

Species : Rabbit
Result : Corrosive to eyes

INORGANIC SALT:

Result : Irritating to eyes

TRIAZOLE DERIVATIVE:

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

ORGANIC SALT:


Result : Irritating to eyes

CORROSION/SCALE INHIBITOR:

Result : Slightly irritating to eyes

THIAZOLE COMPOUND:

Species : Rabbit
Result : Corrosive to eyes

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INORGANIC SALT:

Species : Rabbit
 Result : Corrosive to eyes

INORGANIC SALT:

Result : Irritating to eyes

TRIAZOLE DERIVATIVE:

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

ORGANIC SALT:

Result : Irritating to eyes

CORROSION/SCALE INHIBITOR:

Result : Slightly irritating to eyes

THIAZOLE COMPOUND:

Species : Rabbit
 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:

INORGANIC SALT:

Test Type : Buehler Test
 Species : Guinea pig
 Method : OPPTS 870.2600
 GLP : yes

TRIAZOLE DERIVATIVE:

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

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CORROSION/SCALE INHIBITOR:

Species : Guinea pig
 Method : Maximisation Test

THIAZOLE COMPOUND:

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

INORGANIC SALT:

Test Type : Buehler Test
 Species : Guinea pig
 Method : OPPTS 870.2600
 GLP : yes

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

THIAZOLE COMPOUND:

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

Germ cell mutagenicity


Not classified based on available information.

Components:

INORGANIC SALT:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Test system: Chinese hamster lung cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro

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Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: without metabolic activation
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Mouse
Method: OECD Test Guideline 475
Result: negative
Remarks: Information given is based on data obtained from similar substances.

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 similar substances.

THIAZOLE COMPOUND:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation

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Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Result: negative
Remarks: Information given is based on data obtained from similar substances.

INORGANIC SALT:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
Remarks: Information given is based on data obtained from similar substances.


Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: without metabolic activation
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Mouse
Method: OECD Test Guideline 475
Result: negative
Remarks: Information given is based on data obtained from similar substances.

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

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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.

THIAZOLE COMPOUND:

Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Species: Mouse
 Result: negative
 Remarks: Information given is based on data obtained from 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

May damage fertility or the unborn child.


Components:

INORGANIC SALT:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

INORGANIC SALT:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

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STOT - single exposure

Not classified based on available information.

Components:

INORGANIC SALT:

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

INORGANIC SALT:

Exposure routes : Inhalation
 Target Organs : Respiratory Tract
 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 fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 137 mg/l
 Exposure time: 96 h
 Test Type: static test


 LC50 (Pimephales promelas (fathead minnow)): 616 mg/l
 Exposure time: 96 h
 Test Type: static test

 Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 177 mg/l
 Exposure time: 48 h
 Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

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

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Components:

INORGANIC SALT:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 mg/l
 Exposure time: 96 h
 Method: ISO 7346/2
 Remarks: Information given is based on data obtained from similar substances.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,700 mg/l
 Exposure time: 48 h
 Remarks: Mortality
 Information given is based on data obtained from similar substances.
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 207 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Information given is based on data obtained from similar substances.
- Toxicity to microorganisms : EC0 (Pseudomonas putida): 3,454 mg/l
 Exposure time: 0.5 h
 Test Type: Static
 Remarks: Information given is based on data obtained from similar substances.

INORGANIC SALT:


- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,800 mg/l
 Exposure time: 48 h
 Test Type: static test

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.

ORGANIC SALT:

- Toxicity to fish : LC50: > 3,300 mg/l
 Remarks: Information given is based on data on the components and the ecotoxicology of similar products.
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 3,300 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data on the

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components and the ecotoxicology of similar products.

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.

THIAZOLE COMPOUND:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.73 mg/l
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203
Remarks: Information given is based on data obtained from similar substances.


LC50 (Bluegill (Lepomis macrochirus)): 3.8 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 19 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 0.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.066 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from

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similar substances.

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.041 mg/l
 End point: Growth rate
 Exposure time: 89 d
 Test Type: flow-through test
 Method: OECD Test Guideline 210
 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)): 0.08 mg/l
 End point: Reproduction Test
 Exposure time: 21 d
 Method: OECD Test Guideline 211
 Remarks: Information given is based on data obtained from similar substances.

INORGANIC SALT:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 210 mg/l
 Exposure time: 96 h
 Method: ISO 7346/2
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,700 mg/l
 Exposure time: 48 h
 Remarks: Mortality
 Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 207 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Information given is based on data obtained from similar substances.


Toxicity to microorganisms : EC0 (Pseudomonas putida): 3,454 mg/l
 Exposure time: 0.5 h
 Test Type: Static
 Remarks: Information given is based on data obtained from similar substances.

INORGANIC SALT:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,800 mg/l
 Exposure time: 48 h
 Test Type: static test

TRIAZOLE DERIVATIVE:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 180 mg/l
 Exposure time: 96 h

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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.

ORGANIC SALT:

Toxicity to fish : LC50: > 3,300 mg/l
 Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Toxicity to daphnia and other aquatic invertebrates : EC50: > 3,300 mg/l
 Exposure time: 48 h
 Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

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.


THIAZOLE COMPOUND:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.73 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203
 Remarks: Information given is based on data obtained from similar substances.

LC50 (Bluegill (Lepomis macrochirus)): 3.8 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 19 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic : IC50 (Pseudokirchneriella subcapitata (green algae)): 0.3 mg/l

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plants

Exposure time: 96 h
Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.066 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.041 mg/l
End point: Growth rate
Exposure time: 89 d
Test Type: flow-through test
Method: OECD Test Guideline 210
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)): 0.08 mg/l
End point: Reproduction Test
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: Information given is based on data obtained from similar substances.

Persistence and degradability

Product:

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
61 mg/l

Chemical Oxygen Demand (COD) : 147,341 mg/l


Components:

INORGANIC SALT:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

ORGANIC SALT:

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 86.27 %
 Exposure time: 28 d
 Remarks: Information given is based on data obtained from similar substances.

THIAZOLE COMPOUND:

Biodegradability : Result: Not readily biodegradable.
 Remarks: Information given is based on data obtained from similar substances.

INORGANIC SALT:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.
 Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

ORGANIC SALT:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 86.27 %
 Exposure time: 28 d
 Remarks: Information given is based on data obtained from similar substances.

THIAZOLE COMPOUND:

Biodegradability : Result: Not readily biodegradable.
 Remarks: Information given is based on data obtained from similar substances.

Bioaccumulative potential

Components:


THIAZOLE COMPOUND:

Bioaccumulation : Species: Cyprinus carpio (Carp)
 Bioconcentration factor (BCF): < 8
 Exposure time: 6 Weeks
 Concentration: 0.01 mg/l
 Remarks: Information given is based on data obtained from similar substances.

Partition coefficient: n-octanol/water : log Pow: 2.42
 pH: 7

THIAZOLE COMPOUND:

Bioaccumulation : Species: Cyprinus carpio (Carp)
 Bioconcentration factor (BCF): < 8
 Exposure time: 6 Weeks
 Concentration: 0.01 mg/l

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

Partition coefficient: n-octanol/water : log Pow: 2.42
pH: 7

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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code


Not regulated as a dangerous good

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

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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

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

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
 Respiratory or skin sensitization
 Reproductive toxicity
 Skin corrosion or irritation
 Serious eye damage or eye irritation

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

Proposition 65 warnings are not required for this product based on the results of a risk assessment performed on the product as delivered and when used as intended.

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

AICS : Not in compliance with the inventory

DSL : This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.


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

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

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TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:
 MERCURY 7439-97-6

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.
 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.
 H360 : May damage fertility or the unborn child.

Full text of other abbreviations

Acute Tox. : Acute toxicity
 Eye Dam. : Serious eye damage
 Eye Irrit. : Eye irritation
 Met. Corr. : Corrosive to metals
 Repr. : Reproductive toxicity
 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 / TWA : 8-hour, time-weighted average
 ACGIH / STEL : Short-term exposure limit
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
 OSHA P0 / TWA : 8-hour time weighted average

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 -

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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.

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