

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Neogen® Salmonella Enrichment Supplement
Type of product : Food Safety -- [Food Safety]
Product code : SESUP001

1.2. Other means of identification

Part Number(s) : 700002097|SESUP001

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Laboratory chemicals, Scientific research and development
Recommended use : Laboratory chemicals, Scientific research and development

1.4. Supplier's details

Manufacturer

Neogen Corporation
620 Leshler Place
Lansing, Michigan 48912
United States of America
T 800.234.5333
sds@neogen.com - <https://www.neogen.com/>

1.5. Emergency phone number

Emergency number : 24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341	Suspected of causing genetic defects.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment, Acute Hazard, Category 2	H401	Toxic to aquatic life.
Hazardous to the aquatic environment, Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

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Hazard statements (GHS CA)	: H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H341 - Suspected of causing genetic defects. H361 - Suspected of damaging fertility or the unborn child H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS CA)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing dust, fume, gas, mist, vapors, spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice or attention. P310 - Immediately call a POISON CENTER or a doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice or attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
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<p>Malachite green oxalate</p>	<p>Malachite green oxalate ammonium, [4-[p-(dimethylamino)-alpha-phenylbenzylidene]-2,5-cyclohexadien-1-ylidene]dimethyl-, oxalate (1:1), oxalate (1:1) / ammonium, [4-[para-(dimethylamino)-alpha-phenylbenzylidene]-2,5-cyclohexadien-1-ylidene]dimethyl-, oxalate (1:1), oxalate (1:1) / bis[[4-[4-(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium] oxalate, dioxalate / ethanedioic acid, ion(1-), N-[4-[[4-(dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-methylmethanaminium, ethanedioate (2:1) / malachite green oxalate (2:2:1) / malachite green oxalate salt (2:2:1) / malachite green oxalate, certified (2:2:1) / methanaminium, N-[4-[[4-(dimethylamino)phenyl]phenylmethylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, ethanedioate, ethanedioate (2:2:1)</p>	<p>-</p>	<p>≥ 10 – < 15</p>	<p>Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</p>
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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Novobiocin, sodium salt	benzamide, N-[7-[[[3-O-(aminocarbonyl)-6-deoxy-5-C-methyl-4-O-methyl-beta-L-lyxo-hexopyranosyl]oxy]-4-hydroxy-8-methyl-2-oxo-2H-1-benzopyran-3-yl]-4-hydroxy-3-(3-methyl-2-butenyl)-, monosodium salt / novobiocin sodium / novobiocin sodium salt	CAS-No.: 1476-53-5	≥ 1 – < 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Streptomycin sesquisulfate hydrate	O-2-Deoxy-2-(methylamino)- α -L-glucopyranosyl-(1 \rightarrow 2)-O-5-deoxy-3-c-formyl- α -L-lyxofuranosyl-(1 \rightarrow 4)-N,N'-bis(aminoiminomethyl)-D-streptamine sulfate (2:3) ; Streptomycin sulfate D-streptamine, O-2-deoxy-2-(methylamino)- α -L-glucopyranosyl-(1.fwdarw.)-O-5-deoxy-3-C-formyl- α -L-lyxofuranosyl-(1.fwdarw.)-N,N'-bis(aminoiminomethyl)-, sulfate (2:3) (salt) / D-Streptamine, O-2-deoxy-2-(methylamino)- α -L-glucopyranosyl-(1->2)-O-5-deoxy-3-C-formyl- α -L-lyxofuranosyl-(1->4)-N,N'-bis(aminoiminomethyl)-, sulfate (2:3) (salt) / streptomycin A sulfate / streptomycin sesquisulfate / streptomycin sulphate / streptomycin sulphate B.P. / streptomycin, sulfate (2:3) (salt)	CAS-No.: 3810-74-0	$\geq 1 - < 5$	Acute Tox. 4 (Oral), H302

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according to the Hazardous Products Regulation (WHMIS 2015)

Nalidixic acid	1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid ; Nalidixic acid 1,4-dihydro-1-ethyl-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid / 1,8-naphthyridine-3-carboxylic acid, 1-ethyl-1,4-dihydro-7-methyl-4-oxo- / 1-ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid / 1-ethyl-7-methyl-1,4-dihydro-1,8-naphthyridin-4-one-3-carboxylic acid / 1-ethyl-7-methyl-1,8-naphthyridin-4-one-3-carboxylic acid / 1-ethyl-7-methyl-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid / 3-carboxy-1-ethyl-7-methyl-1,8-naphthidin-4-one / betaxina / cybis / dixiben / eucisten / innoxalon / kusnarin / nalidic acid / nalidicron / nalidixan / nalidixic acid / nalidixin / nalidixinic acid / nalitucsan / nalix / nalurin / narigix / naxuril / NCI-C56199 / neggram / negram / nevigramon / nicelate / nogram / NSC-82174 / poleon / specifene / specifin / uralgin / uriben / uriclar /	CAS-No.: 389-08-2	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Muta. 2, H341
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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
	urisal / urodixin / uroman / uroneg / uropan / WIN 18,320 / wintomylon			

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
- Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

- Symptoms/effects after inhalation : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : Harmful if swallowed.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : No fire hazard.
- Explosion hazard : No direct explosion hazard.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
- Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.
- For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep in a cool, well-ventilated place away from heat.
- Storage conditions : Store locked up.
- Storage temperature : 2 – 8 °C
- Packaging materials : Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Color	: Light green
Odor	: Slight
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

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according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Neogen® Salmonella Enrichment Supplement	
ATE CA (oral)	348.904 mg/kg body weight
Unknown acute toxicity (GHS CA)	82.24% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Malachite green oxalate	
LD50 oral rat	275 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg
ATE CA (oral)	275 mg/kg body weight

Novobiocin, sodium salt (1476-53-5)	
LD50 oral rat	3500 mg/kg body weight (Rat, Literature study)
ATE CA (oral)	3500 mg/kg body weight

Nalidixic acid (389-08-2)	
LD50 oral rat	1160 mg/kg (Rat, Oral)
ATE CA (oral)	1160 mg/kg body weight

Streptomycin sesquisulfate hydrate (3810-74-0)	
LD50 oral rat	430 mg/kg (Rat, Oral)
ATE CA (oral)	430 mg/kg body weight

Skin corrosion/irritation : Not classified

Malachite green oxalate	
pH	2.4 (1 %)

Novobiocin, sodium salt (1476-53-5)	
pH	7.5 (10 g/l, 25 °C)

Streptomycin sesquisulfate hydrate (3810-74-0)	
pH	4.5 – 7 (20 - 25 %)

Serious eye damage/irritation : Causes serious eye damage.

Malachite green oxalate	
pH	2.4 (1 %)

Novobiocin, sodium salt (1476-53-5)	
pH	7.5 (10 g/l, 25 °C)

Streptomycin sesquisulfate hydrate (3810-74-0)	
pH	4.5 – 7 (20 - 25 %)

Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Suspected of causing genetic defects.

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Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified

Novobiocin, sodium salt (1476-53-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Neogen® Salmonella Enrichment Supplement	
Viscosity, kinematic	Not applicable

Malachite green oxalate	
Viscosity, kinematic	Not applicable

Novobiocin, sodium salt (1476-53-5)	
Viscosity, kinematic	Not applicable

Nalidixic acid (389-08-2)	
Viscosity, kinematic	Not applicable

Streptomycin sesquisulfate hydrate (3810-74-0)	
Viscosity, kinematic	Not applicable

Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Harmful if swallowed.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Malachite green oxalate	
LC50 - Fish [1]	0.12 mg/l (96 h, Pimephales promelas)
EC50 - Crustacea [1]	0.29 mg/l (48 h, Daphnia magna)
ErC50 algae	1.08 mg/l

Nalidixic acid (389-08-2)	
LC50 - Fish [1]	722.335 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	910.539 mg/l Source: Ecological Structure Activity Relationships

Streptomycin sesquisulfate hydrate (3810-74-0)	
LC50 - Fish [1]	> 180 mg/l Source: The ECOTOXicology database
EC50 - Crustacea [1]	363 mg/l (48 h, Daphnia magna)

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12.2. Persistence and degradability

Neogen® Salmonella Enrichment Supplement	
Persistence and degradability	Not rapidly degradable
Malachite green oxalate	
Persistence and degradability	Not readily biodegradable in water.
Novobiocin, sodium salt (1476-53-5)	
Persistence and degradability	Not readily biodegradable in water.
Nalidixic acid (389-08-2)	
Persistence and degradability	Biodegradability in water: no data available.
Streptomycin sesquisulfate hydrate (3810-74-0)	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

Malachite green oxalate	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF - Fish [1]	0.15 mg/l (24 h, Salmo gairdneri, Residues)
Partition coefficient n-octanol/water (Log Pow)	1.15 (Estimated value)
Novobiocin, sodium salt (1476-53-5)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	19.28 l/kg (Estimated value)
Partition coefficient n-octanol/water (Log Pow)	2.45 (Estimated value, KOWWIN)
Nalidixic acid (389-08-2)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	1.41
Streptomycin sesquisulfate hydrate (3810-74-0)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

Novobiocin, sodium salt (1476-53-5)	
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.457 – 2.672 (log Koc, Estimated value)

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

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according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
Not regulated for transport			
14.2. UN Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group, if applicable			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

TDG

Not regulated

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Malachite green oxalate

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags	Significant New Activity (SNAc) provisions of the Act apply
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Novobiocin, sodium salt (1476-53-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Nalidixic acid (389-08-2)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

Streptomycin sesquisulfate hydrate (3810-74-0)

Listed on the Canadian DSL (Domestic Substances List)

Canada DSL & NDSL Flags

Significant New Activity (SNAc) provisions of the Act apply

Malachite green oxalate

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Novobiocin, sodium salt (1476-53-5)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Nalidixic acid (389-08-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Streptomycin sesquisulfate hydrate (3810-74-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16 Other Information

Issue date : 05-16-2025
Revision date : 08-13-2025
Supersedes : 05-16-2025

Full text of hazard classes and H-statements:

H301	Toxic if swallowed
H302	Harmful if swallowed
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
H341	Suspected of causing genetic defects.
H361	Suspected of damaging fertility or the unborn child

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Full text of hazard classes and H-statements:	
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.