

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date 08.07.2015




Revision: 08.07.2015

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Virobac v.4
- **Article number:** 100328
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Disinfectant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Theochem Laboratories  
7373 Rowlett Park Drive  
Tampa, FL 33610  
Phone: 813-237-6463
- **Further information obtainable from:** Product Safety Department
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H412.
- 
corrosion  
 Skin Corr. 1B      H314 Causes severe skin burns and eye damage.
- 
environment  
 Aquatic Acute 1      H400 Very toxic to aquatic life.
- 
Acute Tox. 4      H302 Harmful if swallowed.
- Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.
- **Additional information:**  
There are no other hazards not otherwise classified that have been identified.  
0 % of the mixture consists of component(s) of unknown toxicity.

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms

The following pictograms are only for use within Europe: GHS09.



GHS05 GHS07 GHS09

### Signal word Danger

### Hazard-determining components of labelling:

didecyldimethylammonium chloride

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

tetrasodium ethylenediaminetetraacetate

### Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400, H412.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

P270 Do not eat, drink or smoke when using this product.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### NFPA ratings (scale 0 - 4)



Health = 3

Fire = 0

Reactivity = 0

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## · HMIS-ratings (scale 0 - 4)

HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

## · HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

## · 2.3 Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

### · Dangerous components:

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	didecyldimethylammonium chloride Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 2, H411 Acute Tox. 4, H302	2,5-10%
CAS: 68424-85-1 EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302	2,5-10%
CAS: 64-02-8 EINECS: 200-573-9 Index number: 607-428-00-2	tetrasodium ethylenediaminetetraacetate Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332	≤ 2,5%

### · Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### · After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

#### · After eye contact:

Protect unharmed eye.

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- Remove contact lenses if worn.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Nausea
  - Cramp
  - Breathing difficulty
- **Hazards**
  - Causes severe skin burns and eye damage.
  - Danger of impaired breathing.
  - May be harmful if swallowed.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - Monitor circulation, possible shock treatment.
  - Medical supervision for at least 48 hours.
  - If necessary oxygen respiration treatment.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
  - In case of fire, the following can be released:
    - Carbon monoxide (CO)
    - Nitrogen oxides (NO<sub>x</sub>)
    - Hydrogen chloride (HCl)
  - Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
  - Do not allow to enter sewers/ surface or ground water.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose of the material collected according to regulations.

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- Clean the affected area carefully; suitable cleaners are:  
Warm water  
Dispose contaminated material as waste according to section 13.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Prevent formation of aerosols.  
Open and handle receptacle with care.  
Avoid splashes or spray in enclosed areas.  
Use only in well ventilated areas.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Use only receptacles specifically permitted for this substance/product.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Do not inhale gases / fumes / aerosols.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

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- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
For spills, respiratory protection may be advisable.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **For the permanent contact gloves made of the following materials are suitable:** Rubber gloves
- **Eye protection:**  
Contact lenses should not be worn.



Safety glasses

- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Liquid
  - Colour: Colourless
- **Odour:** Faint, aromatic
- **Odour threshold:** Not determined.
- **pH-value at 20 °C (68 °F):** 6,00 - 8,00
- **Change in condition**
  - Melting point/Melting range: Not Determined.
  - Boiling point/Boiling range: Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto/Self-ignition temperature:**
  - Decomposition temperature: Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not determined.

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- **Density:** 0,99 - 1,01 g/cm<sup>3</sup> (8,262 - 8,428 lbs/gal)
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Contact with acids releases irritant gases.  
Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Nitrogen oxides  
Hydrogen chloride (HCl)  
Carbon monoxide

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Oral	LD50	344 mg/kg (rat)
Dermal	LD50	3340 mg/kg (rabbit)

**64-02-8 tetrasodium ethylenediaminetetraacetate**

Oral	LD50	1700 mg/kg (rat)
------	------	------------------

**7173-51-5 didecyldimethylammonium chloride**

Oral	LD50	84 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Strong caustic effect on skin and mucous membranes.

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- **Serious eye damage/irritation** Strong caustic effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Corrosive  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Acute effects (acute toxicity, irritation and corrosivity):**  
Harmful if swallowed.  
Causes severe skin burns and eye damage.
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**  
The product contains materials that are harmful to the environment.
- |   |                                 |
|---|---------------------------------|
| <b>68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b> |                                 |
| LC50  | 0,28 mg/l (pimephales promelas) |
| <b>7173-51-5 didecyldimethylammonium chloride</b>                                       |                                 |
| EC50  | 0,071 mg/kg (daphnia) (48 hr)   |
| LC50  | 0,49 mg/l (zebra fish) (96 hr)  |
- **12.2 Persistence and degradability** No further relevant information available.
  - **12.3 Bioaccumulative potential** Does not accumulate in organisms.
  - **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:**

Inhibition of the growth rate  
Inhibition of the development of the biomass  
Very toxic for algae

- **Additional ecological information:**

- **General notes:**

At present there are no ecotoxicological assessments.  
This statement was deduced from the properties of the single components.  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.


## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to local official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT**

UN1760  
Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.
- **ADR, IMDG, IATA**

UN1760
- **14.2 UN proper shipping name**
- 

Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).
- **DOT**

Corrosive liquids, n.o.s. (didecyldimethylammonium chloride)
- **ADR**

1760 CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride), ENVIRONMENTALLY HAZARDOUS
- **IMDG**

CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride), MARINE POLLUTANT
- **IATA**

CORROSIVE LIQUID, N.O.S. (didecyldimethylammonium chloride)

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## · 14.3 Transport hazard class(es)

## · DOT



· Class 8 Corrosive substances.  
· Label 8

## · ADR



· Class 8 (C9) Corrosive substances.  
· Label 8

## · IMDG



· Class 8 Corrosive substances.  
· Label 8

## · IATA



· Class 8 Corrosive substances.  
· Label 8

## · 14.4 Packing group

· DOT, ADR, IMDG, IATA III

## · 14.5 Environmental hazards:

## · Marine pollutant:

Yes

## · Special marking (ADR):

Symbol (fish and tree)

## · 14.6 Special precautions for user

Symbol (fish and tree)

## · Danger code (Kemler):

Warning: Corrosive substances.

## · EMS Number:

80

## · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

F-A,S-B

Not applicable.

## · Transport/Additional information:

## · ADR

· Transport category 3  
· Tunnel restriction code E

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· UN "Model Regulation":

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UN1760, CORROSIVE LIQUID, N.O.S.  
(didecyltrimethylammonium chloride), 8, III

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):
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None of the ingredients are listed.
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· Section 313 (Specific toxic chemical listings):
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None of the ingredients are listed.
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· TSCA (Toxic Substances Control Act):
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All ingredients are listed.
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· Proposition 65 (California):
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· Chemicals known to cause cancer:
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None of the ingredients is listed.
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· Chemicals known to cause reproductive toxicity for females:
---

None of the ingredients are listed.
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· Chemicals known to cause reproductive toxicity for males:
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None of the ingredients are listed.
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· Chemicals known to cause developmental toxicity:
--

None of the ingredients are listed.
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· Carcinogenic Categories
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· EPA (Environmental Protection Agency)
---

None of the ingredients are listed.
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· Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)
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EPA Product Registration : 10324-155-9367.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER. KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**FIRST AID:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

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treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## ENVIRONMENTAL HAZARD

This product is toxic to fish.

## PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, anionic soaps and detergents. Do not use or store near heat or open flame.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

**CONTAINER HANDLING/PESTICIDE STORAGE:** Store only in original container. Do not reuse empty container. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**RESIDUE REMOVAL:** Triple rinse as follows: Fill the container 1/4 full with water and recap. Agitate vigorously and drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat two more times. Wrap container and put in trash or offer for recycling if available.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. Follow Pesticide Disposal instructions.

### · IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

### · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

### · Canada

#### · Canadian Domestic Substances List (DSL)

All ingredients are listed.

#### · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients are listed.

#### · Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients are listed.

### · Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

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· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **Sources**

SDS Prepared by:  
ChemTel Inc.  
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