

Precautionary Statements - Prevention

Do not breathe dusts or mists
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor
 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 or doctor
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Immediately call a POISON CENTER or doctor
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards Hazards not otherwise classified (HNOC)

Not Applicable

2.4 Other information

Not Applicable

Unknown Acute Toxicity

< 1% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance

Mixture

| Chemical Name | CAS-No | Weight % |
|--|---------------|----------|
| QUATERNARY AMMONIUM COMPOUNDS, DI-C8-10-ALKYLDIMETHYL, CHLORIDES | 68424-95-3-LB | 1 - 5 |
| Ammonium chloride compound | 68424-85-1-LB | 1 - 5 |
| TETRASODIUM EDTA | 64-02-8 | 1 - 5 |
| Ethanol | 64-17-5 | 1 - 5 |

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures

4.1 Description of first-aid measures

General advice When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

Skin contact Wash off immediately with soap and plenty of water. Use a mild soap if available.

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, fog, Carbon dioxide (CO₂), foam or dry chemical.

Unsuitable Extinguishing Media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Special Hazard

Hazardous decomposition products formed under fire conditions Immediately place absorbent material in a sealed water-filled metal container to avoid spontaneous combustion of absorbent material contaminated with this product

Hazardous Combustion Products No information available.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

6.2 Environmental precautions

Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information.

6.3 Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas.

Hygiene measures

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from frost.

Materials to Avoid Metals.

8. Exposure controls/personal protection

8.1 Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | British Columbia | Alberta | Quebec | Ontario TWAEV |
|--------------------|----------------|--|------------------|--|--|----------------|
| Ethanol 64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1900 mg/m ³ | STEL: 1000 ppm | TWA: 1000 ppm TWA: 1880 mg/m ³ | TWA: 1000 ppm TWA: 1880 mg/m ³ | STEL: 1000 ppm |

8.2 Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

8.3 Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Safety glasses with side-shields.
- Skin and body protection** Long sleeved clothing.
- Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.
- Hygiene measures** See section 7 for more information

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liquid
Appearance No information available
Color Clear
Odor Mint-like
Odor Threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Methods</u> |
|------------------------------|-----------------|--------------------------|
| pH | 12.4 | |
| Melting/freezing point | | No information available |
| Boiling point/boiling range | 102 °C / 216 °F | |
| Flash Point | 94 °C / 201 °F | |
| Evaporation rate | | No information available |
| Flammability (solid, gas) | | No information available |
| Flammability Limits in Air | | |
| upper flammability limit | | No information available |
| lower flammability limit | | No information available |
| Vapor pressure | | No information available |
| Vapor density | | No information available |
| Specific Gravity | 1.02 | |
| Water solubility | | No information available |
| Solubility in other solvents | | No information available |
| Partition coefficient | | No information available |
| Autoignition temperature | | No information available |
| Decomposition temperature | | No information available |
| Viscosity, kinematic | | No information available |
| Viscosity, dynamic | | No information available |
| Explosive properties | | No information available |
| Oxidizing Properties | | No information available |

9.2 Other information

Volatile organic compounds (VOC) content 11.1 g/L

10. Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Protect from frost, heat and sunlight.

10.5 Incompatible Materials

Metals.

10.6 Hazardous Decomposition Products

None known.

11. Toxicological information

11.1 Acute toxicity

Numerical measures of toxicity: Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Unknown Acute Toxicity < 1% of the mixture consists of ingredient(s) of unknown toxicity

| | |
|-------------------------|----------------|
| Oral LD50 | 7,501.00 mg/kg |
| Dermal LD50 | 5,159.00 mg/kg |
| LC50 (Dust/Mist) | 78.90 mg/l |
| LC50 (Vapor) | 551.00 mg/l |

Numerical measures of toxicity: Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------------------------|--------------------|-------------|--------------------------|
| TETRASODIUM EDTA 64-02-8 | 1658 mg/kg (Rat) | - | - |
| Ethanol 64-17-5 | - | - | = 124.7 mg/L (Rat) 4 h |

11.2 Information on toxicological effects

Skin corrosion/irritation

Product Information

Ni format oravai bl ae

Component Information

Ni format oravai bl ae

Serious eye damage/eye irritation

Product Information

Ni format oravai bl ae

Component Information

Ni format oravai bl ae

Respiratory or skin sensitization

- Product Information
 • No information available
Component Information
 • No information available

Germ cell mutagenicity

- Product Information
 • No information available
Component Information
 • No information available

Carcinogenicity

- Product Information
 • No information available
Component Information
 • No information available

Reproductive toxicity

- Product Information
 • No information available
Component Information
 • No information available

STOT - single exposure

No information available

STOT - repeated exposure

- May cause adverse liver effects
- Contains a known or suspected reproductive toxin

Other adverse effects

- Product Information
 • No information available
Component Information
 • No information available

Aspiration hazard

- Product Information
 • No information available
Component Information
 • No information available

12. Ecological information

12.1 Toxicity

Ecotoxicity No information available

8.17058 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Ecotoxicity effects

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|-----------------------------|--|--|---|
| TETRASODIUM EDTA 64-02-8 | EC50: 72 h Desmodesmus subspicatus 1.01 mg/L | LC50: 96 h Lepomis macrochirus 41 mg/L static LC50: 96 h Pimephales promelas 59.8 mg/L static | - |
| Ethanol 64-17-5 | - | LC50: 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L static LC50: 96 h Pimephales promelas 100 mg/L | LC50: 48 h Daphnia magna 9268 - 14221 mg/L EC50: 48 h Daphnia magna 2 mg/L Static |

| | | | |
|--|--|---|--|
| | | static LC50: 96 h Pimephales promelas 13400 - 15100 mg/L flow-through | |
|--|--|---|--|

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Discharge into the environment must be avoided

| Chemical Name | log Pow |
|--------------------|---------|
| Ethanol 64-17-5 | -0.32 |

12.4 Mobility in soil

No information available.

12.5 Other adverse effects

No adverse effects are expected.

13. Disposal Considerations

13.1 Waste treatment methods

DISPOSAL: Rinse the empty container. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on spills, and for clean up of spills or the disposal of unused, unwanted product, contact the Provincial Regulatory Agency or the Manufacturer.
Do not reuse container.

14. Transport Information

| | |
|-------------|---------------|
| DOT | Not regulated |
| MEX | Not regulated |
| IMDG | Not regulated |
| IATA | Not regulated |

15. Regulatory information

15.1 International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL | Complies |
| EINECS/ELINCS | - |
| ENCS | - |
| IECSC | Complies |
| KECL | - |
| PICCS | Complies |
| AICS | Complies |
| NZIoC | - |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL - Canadian Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2 Pesticide Information

DIN Registration Number 02284502

This chemical is registered by Health Canada and is subject to certain labeling requirements. These requirements differ from the classification criteria and hazard information required for safety data sheets. Following is the hazard information as required on the label:

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. **DANGER** Corrosive to eyes, on skin or on clothing. Harmful if swallowed. Avoid contamination of food in the use and storage of this product.

16. Other information

| | | | | |
|-------------|------------------------|-----------------------|--------------------------|--|
| NFPA | Health Hazard 3 | Flammability 0 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 3 | Flammability 0 | Physical Hazard 0 | Personal protection X |

Legend:

- ACGIH (American Conference of Governmental Industrial Hygienists)*
- Ceiling (C)*
- DOT (Department of Transportation)*
- EPA (Environmental Protection Agency)*
- IARC (International Agency for Research on Cancer)*
- International Air Transport Association (IATA)*
- International Maritime Dangerous Goods (IMDG)*
- NIOSH (National Institute for Occupational Safety and Health)*
- NTP (National Toxicology Program)*
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)*
- PEL (Permissible Exposure Limit)*
- Reportable Quantity (RQ)*
- Skin designation (S*)*
- STEL (Short Term Exposure Limit)*
- TLV® (Threshold Limit Value)*
- TWA (time-weighted average)*

Revision Date 17-May-2018

Revision Note
 No information available

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet