



# SAFETY DATA SHEET CETRIMONIUM CHLORIDE 50% Revision 1, 02/12/2023

## 1. IDENTIFICATION

|                     |                                     |
|---------------------|-------------------------------------|
| Product Name        | Cetrimonium Chloride 50%            |
| Other Names         | Cetyltrimethylammonium chloride     |
| Uses                | Surfactant.                         |
| Chemical Family     | No Data Available                   |
| Chemical Formula    | Unspecified                         |
| Chemical Name       | Hexadecyltrimethylammonium chloride |
| Product Description | No Data Available                   |

### Contact Details of the Supplier of this Safety Data Sheet

| Organisation             | Location  | Telephone    |
|--------------------------|---|--------------|
| Aurora Cleaning Supplies | F1 / 5 Bungaleen Court<br>Dandenong South<br>VIC 3175 | 03 9768 2669 |

### Emergency Contact Details

*For emergencies only; DO NOT contact these companies for general product advice.*

| Organisation               | Location     | Telephone                                  |
|----------------------------|--------------|--|
| Poisons Information Centre | Westmead NSW | 131126                                     |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

## 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Schedule 6

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## Globally Harmonised System

**Hazard Classification** Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Hazard Categories**

Acute Toxicity (Oral) - Category 4

Skin Corrosion/Irritation - Category 1C

Serious Eye Damage/Irritation - Category 1

Acute Hazard To The Aquatic Environment - Category 1

Long-term Hazard To The Aquatic Environment - Category 1

### Pictograms



**Signal Word** Danger

**Hazard Statements**

**H302** Harmful if swallowed.

**H314** Causes severe skin burns and eye damage.

**H410** Very toxic to aquatic life with long lasting effects.

|                                 |            |                           |  |
|---------------------------------|------------|---------------------------|--|
| <b>Precautionary Statements</b> | Prevention | <b>P260</b>               | Do not breathe mist/vapour/spray.  |
|                                 |            | <b>P273</b>               | Avoid release to the environment.  |
|                                 |            | <b>P270</b>               | Do not eat, drink or smoke when using this product.  |
|                                 |            | <b>P280</b>               | Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator.                               |
|                                 | Response   | <b>P303 + P361 + P353</b> | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
|                                 |            | <b>P310</b>               | Immediately call a POISON CENTER or doctor.  |
|                                 |            | <b>P305 + P351 + P338</b> | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|                                 |            | <b>P301 + P330 + P331</b> | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
|                                 |            | <b>P363</b>               | Wash contaminated clothing before reuse.   |
|                                 |            | <b>P391</b>               | Collect spillage.  |
|                                 |            | <b>P304 + P340</b>        | IF INHALED: Remove victim to fresh air and keep comfortable for breathing.   |
|                                 |            | <b>P405</b>               | Store locked up.   |
|                                 | Storage    |                           |  |
|                                 | Disposal   | <b>P501</b>               | Dispose of contents/container in accordance with local / regional / national / international regulations.                        |

## National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

## Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

**Hazard Classification** Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

| Chemical Entity                 | Formula     | CAS Number | Proportion |
|---------------------------------|-------------|------------|------------|
| Cetyltrimethylammonium chloride | Unspecified | 112-02-7   | 48 - 52 %  |
| Water                           | H2O         | 7732-18-5  | 48 - 52 %  |

**4. FIRST AID MEASURES****Description of necessary measures according to routes of exposure**

|  |   |
|--|---|
| <b>Swallowed</b>                                 | IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.   |
| <b>Eye</b>                                       | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.  |
| <b>Skin</b>                                      | IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately wash skin and hair with plenty of soap and running water for at least 15 minutes. Immediate call a Poison Centre or doctor/physician for advice. Wash contaminated clothing and shoes before reuse.<br>*For minor skin contact, avoid spreading material on unaffected skin.  |
| <b>Inhaled</b>                                   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.    |
| <b>Advice to Doctor</b>                          | For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.<br>*Most important symptoms and effects, both acute and delayed: Harmful if swallowed. Causes severe skin burns and eye damage. |
| <b>Medical Conditions Aggravated by Exposure</b> | No information available.   |

**5. FIRE FIGHTING MEASURES**

|   |  |
|---|--|
| <b>General Measures</b>                   | Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.  |
| <b>Flammability Conditions</b>            | Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.  |
| <b>Extinguishing Media</b>                | If material is involved in a fire, use dry chemical, Carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam or water spray for extinction.  |
| <b>Fire and Explosion Hazard</b>          | Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.   |
| <b>Hazardous Products of Combustion</b>   | Fire may produce irritating, corrosive and/or toxic gases, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen Chloride gas.   |
| <b>Special Fire Fighting Instructions</b> | Contain runoff from fire control or dilution water - Runoff may be corrosive and/or toxic and cause pollution.   |
| <b>Personal Protective Equipment</b>      | Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing - It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. |
| <b>Flash Point</b>                        | No Data Available  |

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|                           |    |      |           |
|---------------------------|----|------|-----------|
| Lower Explosion Limit     | No | Data | Available |
| Upper Explosion Limit     | No | Data | Available |
| Auto Ignition Temperature | No | Data | Available |
| Hazchem Code              | 2X |      |           |

### 6. ACCIDENTAL RELEASE MEASURES

|                                      |  |
|--------------------------------------|--|
| General Response Procedure           | Ensure adequate ventilation - Ventilate enclosed areas before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not breathe mist/vapours and prevent contact with eyes, skin and clothing.   |
| Clean Up Procedures                  | Absorb or cover with dry earth, sand or other non-combustible material and transfer to suitable, closed containers for disposal (see SECTION 13).  |
| Containment                          | Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.<br>*Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  |
| Decontamination                      | No information available.  |
| Environmental Precautionary Measures | Spillages and decontamination runoff should be prevented from entering drains and watercourses.  |
| Evacuation Criteria                  | Immediately isolate spill or leak area. Evacuate personnel to safe areas. Keep unauthorised personnel away. Stay upwind and/or uphill.   |
| Personal Precautionary Measures      | Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (see SECTION 8).<br>*Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. |

### 7. HANDLING AND STORAGE

|           |  |
|-----------|--|
| Handling  | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Do not breathe mist/vapours and prevent contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see SECTION 8). Keep away from heat and sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Avoid release to the environment - Collect spillage (see SECTION 6). |
| Storage   | Store in a cool, dry and well-ventilated place. Avoid extremes of temperature and direct sunlight. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10). Store locked up.   |
| Container | Keep in the original container.  |

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |   |
|-------------------------------|---|
| General                       | No specific exposure standards are available for this product.  |
| Exposure Limits               | No Data Available   |
| Biological Limits             | No information available.   |
| Engineering Measures          | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.  |
| Personal Protection Equipment | - Respiratory protection: Wear suitable respirator. Recommended: Use a full-face supplied air respirator (refer to AS/NZS 1715 & 1716).<br>- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Wear chemical goggles.<br>- Hand protection: Wear protective gloves. Recommended: Wear impervious chemical-resistant gloves.<br>- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Protective |

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work clothing.

### Special Hazards Precautions

No information available.

### Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                                |
|--|--------------------------------|
| Physical State   | Liquid                         |
| Appearance   | Transparent liquid             |
| Odour  | No information available.      |
| Colour   | Colourless to light yellow     |
| pH   | 4.0 - 9.0 (10% water solution) |
| Vapour Pressure  | No Data Available              |
| Relative Vapour Density  | No Data Available              |
| Boiling Point  | No Data Available              |
| Melting Point  | No Data Available              |
| Freezing Point   | No Data Available              |
| Solubility   | No Data Available              |
| Specific Gravity   | No Data Available              |
| Flash Point  | No Data Available              |
| Auto Ignition Temp   | No Data Available              |
| Evaporation Rate   | No Data Available              |
| Bulk Density   | No Data Available              |
| Corrosion Rate   | No Data Available              |
| Decomposition Temperature                                      | No Data Available              |
| Density  | No Data Available              |
| Specific Heat  | No Data Available              |
| Molecular Weight   | No Data Available              |
| Net Propellant Weight  | No Data Available              |
| Octanol Water Coefficient                                      | No Data Available              |
| Particle Size  | No Data Available              |
| Partition Coefficient  | No Data Available              |
| Saturated Vapour Concentration                                 | No Data Available              |
| Vapour Temperature   | No Data Available              |
| Viscosity  | No Data Available              |
| Volatile Percent   | No Data Available              |
| VOC Volume   | No Data Available              |
| Additional Characteristics                                     | No information available.      |
| Potential for Dust Explosion                                   | Not applicable.                |
| Fast or Intensely Burning Characteristics                      | No information available.      |
| Flame Propagation or Burning Rate of Solid Materials           | No information available.      |
| Non-Flammables That Could Contribute Unusual Hazards to a Fire | No information available.      |

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|   |  |
|---|--|
| <b>Properties That May Initiate or Contribute to Fire Intensity</b> | Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.                                      |
| <b>Reactions That Release Gases or Vapours</b>                      | Fire/decomposition may produce irritating, corrosive and/or toxic gases, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen Chloride gas. |
| <b>Release of Invisible Flammable Vapours and Gases</b>             | Contact with metals may evolve flammable hydrogen gas.   |

### 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>General Information</b>              | No information available.  |
| <b>Chemical Stability</b>               | Stable under normal conditions.  |
| <b>Conditions to Avoid</b>              | Avoid extremes of temperature and direct sunlight.   |
| <b>Materials to Avoid</b>               | Incompatible/reactive with alkali metals, ammonia, oxidising agents, peroxides.  |
| <b>Hazardous Decomposition Products</b> | Fire/decomposition may produce irritating, corrosive and/or toxic gases, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen Chloride gas. |
| <b>Hazardous Polymerisation</b>         | No information available.  |

### 11. TOXICOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>General Information</b> | <p>Toxicological information:</p> <ul style="list-style-type: none"><li>- Acute toxicity: Harmful if swallowed.</li><li>- Skin corrosion/irritation: Causes severe skin burns and eye damage.</li><li>- Serious eye damage/irritation: Causes serious eye damage.</li><li>- Respiratory/skin sensitisation: Not considered to be skin sensitising.</li><li>- Germ cell mutagenicity: Not considered to have mutagenic or genotoxic potential.</li><li>- Carcinogenicity: No information available.</li><li>- Reproductive toxicity: Not considered to have specific reproductive or developmental toxicity. Any reproductive and developmental effects were only observed secondary to maternal toxicity.</li><li>- STOT (single exposure): No information available.</li><li>- STOT (repeated exposure): Not considered to cause serious damage to health from repeated oral exposure at doses below acutely toxic doses.</li><li>- Aspiration toxicity: No information available.</li></ul> <p>Information on likely routes of exposure:</p> <ul style="list-style-type: none"><li>- Ingestion: Corrosive! Harmful if swallowed. Signs of poisoning may include nausea, vomiting, abdominal pain, anxiety, restlessness, coma, convulsions, hypotension, cyanosis, and apnoea due to respiratory muscle paralysis. Death can occur within one or three hours after ingestion of concentrated solutions.</li><li>- Eye contact: Corrosive! Causes serious eye damage.</li><li>- Skin contact: Corrosive! Causes severe skin burns.</li><li>- Inhalation: Corrosive! Inhalation exposure may result in respiratory irritation/burning, irritation to the mouth/throat/nose, coughing/choking, chest pain, disorientation, dizziness, and shortness of breath.</li></ul> <p>Chronic effects: No information available.</p> |
| <b>Acute</b>               |   |
| <b>Ingestion</b>           | <p>Acute toxicity (Oral):</p> <p>COMPONENT: Cetyltrimethylammonium chloride (CAS No. 112-02-7):</p> <ul style="list-style-type: none"><li>- LD50, Rat: 400 mg/kg [Supplier's SDS].</li></ul>  |
| <b>Other</b>               | <p>Acute toxicity (Dermal):</p> <p>COMPONENT: Cetyltrimethylammonium chloride (CAS No. 112-02-7):</p> <ul style="list-style-type: none"><li>- LD50, Rat: 4,300 mg/kg [Supplier's SDS].</li></ul>  |
| <b>Carcinogen Category</b> | None  |

**12. ECOLOGICAL INFORMATION**

|                                  |  |
|----------------------------------|--|
| <b>Ecotoxicity</b>               | Aquatic toxicity:<br>COMPONENT: Cetyltrimethylammonium chloride (CAS No. 112-02-7):<br>- LC50, Fish (Bluegill): 60.0 ~ 150.0 mg/L (96 h) [Supplier's SDS]. |
| <b>Persistence/Degradability</b> | No information available.  |
| <b>Mobility</b>                  | No information available.  |
| <b>Environmental Fate</b>        | Very toxic to aquatic life with long lasting effects - Avoid release to the environment.   |
| <b>Bioaccumulation Potential</b> | No information available.  |
| <b>Environmental Impact</b>      | No Data Available  |

**13. DISPOSAL CONSIDERATIONS**

|  |   |
|--|---|
| <b>General Information</b>               | Dispose of contents/container in accordance with local/regional/national regulations. |
| <b>Special Precautions for Land Fill</b> | Incineration is recommended.  |

**14. TRANSPORT INFORMATION****Land Transport (Australia)**

ADG Code

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
| <b>Class</b>                | 8 Corrosive Substances                                    |
| <b>Subsidiary Risk(s)</b>   | No Data Available   |
| <b>EPG</b>                  | 37 Toxic And/Or Corrosive Substances Non-Combustible      |
| <b>UN Number</b>            | 1760  |
| <b>Hazchem</b>              | 2X  |
| <b>Pack Group</b>           | III   |
| <b>Special Provision</b>    | No Data Available   |

**Land Transport (Malaysia)**

ADR Code

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
| <b>Class</b>                | 8 Corrosive Substances                                    |
| <b>Subsidiary Risk(s)</b>   | No Data Available   |
| <b>EPG</b>                  | 37 Toxic And/Or Corrosive Substances Non-Combustible      |
| <b>UN Number</b>            | 1760  |
| <b>Hazchem</b>              | 2X  |
| <b>Pack Group</b>           | III   |
| <b>Special Provision</b>    | No Data Available   |

**Land Transport (New Zealand)**

NZS5433

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
|-----------------------------|---|

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|                           |  |
|---------------------------|--|
| <b>Class</b>              | 8 Corrosive Substances                               |
| <b>Subsidiary Risk(s)</b> | No Data Available                                    |
| <b>EPG</b>                | 37 Toxic And/Or Corrosive Substances Non-Combustible |
| <b>UN Number</b>          | 1760   |
| <b>Hazchem</b>            | 2X   |
| <b>Pack Group</b>         | III  |
| <b>Special Provision</b>  | No Data Available                                    |

### Land Transport (United States of America)

US DOT

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
| <b>Class</b>                | 8 Corrosive Substances                                    |
| <b>Subsidiary Risk(s)</b>   | No Data Available   |
| <b>ERG</b>                  | 154 Substances - Toxic and/or Corrosive (Non-Combustible) |
| <b>UN Number</b>            | 1760  |
| <b>Hazchem</b>              | 2X  |
| <b>Pack Group</b>           | III   |
| <b>Special Provision</b>    | No Data Available   |

### Sea Transport

IMDG Code

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
| <b>Class</b>                | 8 Corrosive Substances                                    |
| <b>Subsidiary Risk(s)</b>   | No Data Available   |
| <b>UN Number</b>            | 1760  |
| <b>Hazchem</b>              | 2X  |
| <b>Pack Group</b>           | III   |
| <b>Special Provision</b>    | No Data Available   |
| <b>EMS</b>                  | F-A, S-B  |
| <b>Marine Pollutant</b>     | Yes   |

### Air Transport

IATA DGR

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, N.O.S. (Contains: Cetrimonium chloride) |
| <b>Class</b>                | 8 Corrosive Substances                                    |
| <b>Subsidiary Risk(s)</b>   | No Data Available   |
| <b>UN Number</b>            | 1760  |
| <b>Hazchem</b>              | 2X  |
| <b>Pack Group</b>           | III   |
| <b>Special Provision</b>    | No Data Available   |

### National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

|                                       |   |
|---------------------------------------|---|
| <b>Dangerous Goods Classification</b> | Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|---------------------------------------|---|



**15. REGULATORY INFORMATION**

**General Information** QUATERNARY AMMONIUM COMPOUNDS

**Poisons Schedule (Aust)** Schedule 6

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

**Approval Code** HSR002491 - Additives Process Chemicals and Raw Materials (Corrosive) Group Standard 2020

**National/Regional Inventories**

|   |                |
|---|----------------|
| <b>Australia (AIIIC)</b>                              | Listed         |
| <b>Canada (DSL)</b>                                   | Not Determined |
| <b>Canada (NDSL)</b>                                  | Not Determined |
| <b>China (IECSC)</b>                                  | Not Determined |
| <b>Europe (EINECS)</b>                                | 203-928-6      |
| <b>Europe (REACH)</b>                                 | Not Determined |
| <b>Japan (ENCS/METI)</b>                              | Not Determined |
| <b>Korea (KECI)</b>                                   | Not Determined |
| <b>Malaysia (EHS Register)</b>                        | Not Determined |
| <b>New Zealand (NZIoC)</b>                            | Listed         |
| <b>Philippines (PICCS)</b>                            | Not Determined |
| <b>Switzerland (Giftliste 1)</b>                      | Not Determined |
| <b>Switzerland (Inventory of Notified Substances)</b> | Not Determined |
| <b>Taiwan (NCSR)</b>                                  | Not Determined |
| <b>USA (TSCA)</b>                                     | Not Determined |

**16. OTHER INFORMATION**

**Related Product Codes** CECHLO5050

**Revision** 1

**Revision Date** 01 Oct 2022

**Key/Legend**

- < Less Than
- > Greater Than
- AICS** Australian Inventory of Chemical Substances
- atm** Atmosphere
- CAS** Chemical Abstracts Service (Registry Number)
- cm<sup>2</sup>** Square Centimetres

## SAFETY DATA SHEET CETRIMONIUM CHLORIDE, Revision 1, 02/12/2023

**CO<sub>2</sub>** Carbon Dioxide

**COD** Chemical Oxygen Demand

**deg C (°C)** Degrees Celcius

**EPA (New Zealand)** Environmental Protection Authority of New Zealand

**deg F (°F)** Degrees Farenheit

**g** Grams

**g/cm<sup>3</sup>** Grams per Cubic Centimetre

**g/l** Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

**immiscible** Liquids are insoluable in each other.

**inHg** Inch of Mercury

**inH<sub>2</sub>O** Inch of Water

**K** Kelvin

**kg** Kilogram

**kg/m<sup>3</sup>** Kilograms per Cubic Metre

**lb** Pound

**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

**ltr or L** Litre

**m<sup>3</sup>** Cubic Metre

**mbar** Millibar

**mg** Milligram

**mg/24H** Milligrams per 24 Hours

**mg/kg** Milligrams per Kilogram

**mg/m<sup>3</sup>** Milligrams per Cubic Metre

**Misc or Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

**mm** Millimetre

**mmH<sub>2</sub>O** Millimetres of Water

**mPa.s** Millipascals per Second

**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Heath and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

**Oz** Ounce

**PEL** Permissible Exposure Limit

**Pa** Pascal

**ppb** Parts per Billion

**ppm** Parts per Million

**ppm/2h** Parts per Million per 2 Hours

**ppm/6h** Parts per Million per 6 Hours

**psi** Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

**tne** Tonne

**TWA** Time Weighted Average

**ug/24H** Micrograms per 24 Hours

**UN** United Nations

**wt** Weight