



# CCM contractor roof wash concentrate

## Commercial Coating Manufacturers

Version No: 2.0

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

Issue Date: 25/07/2025

Print Date: 25/07/2025

L.GHS.NZL.EN

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

### Product Identifier

Product name: CCM contractor roof wash concentrate

Synonyms: N/A

Other means of identification: N/A

### Relevant identified uses of the substance or mixture and uses advised against

Exterior surface biocidal wash for residential, commercial, and industrial buildings. Intended for the treatment and cleaning of outdoor surfaces such as walls, cladding, roofing, and eaves to remove and inhibit the growth of mould, algae, and mildew. For professional use. Not for use on skin, in food preparation areas, or for potable water treatment.

### Details of the manufacturer or importer of the safety data sheet

Registered company name: Commercial Coating Manufacturers

Address: 9 Bay Park Place, Birkdale, Auckland 0626

Telephone: (09) 483-4833  
Fax: Not Available  
Website: <https://ccmcoatings.com/>  
Email: [info@ccmcoatings.com](mailto:info@ccmcoatings.com)

Emergency telephone number  
NZ POISONS (24hr 7days): 0800 764766  
0800 CHEMCALL: (0800 243 622)

## SECTION 2 Hazards identification

Hazard classifications and statements:

**H Code    Hazard classification and statement**

H302    Acute toxicity (oral) – Category 4: Harmful if swallowed  
H314    Skin corrosion – Category 1B: Causes severe skin burns and eye damage  
H318    Serious eye damage – Category 1: Causes serious eye damage  
H400    Hazardous to the aquatic environment (acute) – Category 1: Very toxic to aquatic life  
H410    Hazardous to the aquatic environment (chronic) – Category 1: Very toxic to aquatic life with long lasting effects

HSNO classifications: 6.1D, 8.2C, 8.3A, 9.1A

Label elements:

Hazard pictogram(s):

- GHS07 (Exclamation mark) - Health hazard warning
- GHS09 (Environment) - Environmental hazard
- GHS05 (Corrosion) – Corrosive hazard



Signal word: Warning

### Prevention

- **P260:** Do not breathe mist/vapours/spray.
- **P264:** Wash hands and exposed skin thoroughly after handling.
- **P270:** Do not eat, drink or smoke when using this product.

- **P273:** Avoid release to the environment.
- **P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- **P281:** Use personal protective equipment as required.

## Response

- **P301+P310:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- **P330:** Rinse mouth.
- **P302+P352:** IF ON SKIN: Wash with plenty of water.
- **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.
- **P332+P313:** If skin irritation occurs: Get medical advice/attention.
- **P337+P313:** If eye irritation persists: Get medical advice/attention.
- **P362+P364:** Take off contaminated clothing and wash it before reuse.
- **P391:** Collect spillage.

## Disposal

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

Poison Schedule: N/A

### DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land"  
Dangerous Goods Class: 2

## SECTION 3 Composition / information on ingredients

### Mixtures:

Ingredients are required by the Hazard Substances (Safety Data Sheets) Notice 2017, EPA consolidation 30 September 2022 to be identified:

### Substance:

| CAS No     | Name                                                                  | %[weight] |
|------------|-----------------------------------------------------------------------|-----------|
| 68424-85-1 | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | 20-40%    |

Legend: 1. Classification drawn from supplier SDS;

## SECTION 4 First aid measures

### Description of first aid measures

#### Eye Contact

If this product comes in contact with the eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

#### Skin Contact

This material, or a component of the material, can be absorbed through the skin with resultant toxic effects. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

#### Inhalation

If mist, vapors or spray are inhaled, remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped, apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

#### Ingestion

If swallowed, Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs, give further water. Immediately call Poisons Centre or Doctor.

Notes to physician: Treat symptomatically.

## SECTION 5 Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

- Water spray
- Alcohol-resistant foam

- Dry chemical powder
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing agents:**

- High-pressure water jet (may spread the product)

**5.2 Special hazards arising from the substance or mixture**

In case of fire, hazardous combustion products may include:

- Hydrogen chloride (HCl)
- Nitrogen oxides (NO)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)

Product is not classified as highly flammable, but combustible components may contribute to fire intensity under certain conditions.

**5.3 Advice for firefighters**

Wear full protective clothing and self-contained breathing apparatus (SCBA).

Do not inhale combustion gases or vapours.

Cool endangered containers with water spray.

Prevent fire-fighting water from entering drains or surface water.

**Additional information:**

Contaminated fire extinguishing water must be collected separately and disposed of according to local regulations.

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## SECTION 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Risk of slipping on spilled product. Keep unprotected persons away. Wear full protective equipment including:

- Impermeable protective clothing
- Neoprene protective boots
- Nitrile rubber gloves with extended cuffs
- Full face protection

Ensure protective suits offer complete skin and mucous membrane coverage.

**Environmental precautions**

Prevent release into surface water due to aquatic hazard. Notify authorities if water or sewage systems become contaminated.

**Methods and material for containment and cleaning up**

Contain and absorb spillage using a chemical binder (e.g., multi-purpose absorbent). Dispose of

contaminated material according to Section 13.

For quaternary ammonium compounds (quats), avoid contact with anionic substances.

- If released into wastewater: drain and collect the contaminated liquid.
- Adjust mixture using a 10% sodium lauryl sulphate solution at a 1:1 ratio (double concentration relative to quat).
- Seek supplier advice for additional guidance.

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## SECTION 7 Handling and storage

### Precautions for safe handling

Safe handling procedures:

- Avoid unnecessary personal contact, including inhalation
- Do NOT allow clothing wet with material to stay in contact with skin
- Avoid contact with eyes and skin
- Avoid breathing mist/vapors, especially in enclosed areas
- Use only in well-ventilated areas
- Wash hands thoroughly after handling
- Remove contaminated clothing and wash before reuse
- Do not eat, drink or smoke when using this product
- Ensure eye wash stations and safety showers are accessible

General hygiene considerations:

- Handle in accordance with good industrial hygiene and safety practices
- Regular cleaning of equipment and work area
- Provide adequate ventilation when applying by spray

Storage requirements:

- Store in original containers in a cool, dry, well-ventilated area
- Minimum storage temperature: 7°C
- Protect from freezing - product may be damaged if frozen
- Protect from extreme heat and direct sunlight
- Keep containers tightly closed when not in use
- Store away from children and unauthorized personnel

Container considerations:

- Use only original containers or containers approved for this material
- Ensure container is suitable and properly labeled
- Do not store in unlabeled containers

Incompatible materials:

- Strong oxidizing agents (chlorine bleaches, peroxides, nitrates)
- Strong acids and alkalis
- Active metals (aluminum powder, zinc dust)

- Products containing ammonia

Segregation requirements:

- Separate from incompatible materials
- Store away from heat sources, ignition sources, and direct sunlight
- Ensure adequate separation from oxidizing materials

## SECTION 8 Exposure controls / personal protection

### Workplace Exposure Standards (WES)

No workplace Exposure Standards (WES) have been set for components in this product. **WES-TWA** = Time-Weighted Average over an 8-hour workday

**WES-STEL** = Short-Term Exposure Limit (15-minute average)

### Biological Exposure Index (BEI)

N/A

### Engineering controls:

Pictograms:

- Chemical protective gloves (EN ISO 374-1:2016)
- Face shield/visor (EN 166:2001)
- Protective clothing (EN 14605:2009-08)
- Apron



Ventilation

- Do not breathe vapours.  
Use this product **outdoors** or in a **well-ventilated area**.
- **Local exhaust ventilation** is recommended to control emissions at the source.  
Provide **mechanical ventilation** in confined or enclosed spaces.

Eye and face protection:

- Safety glasses with side shields
- Face shield
- Contact lens use is not recommended

Skin protection:

- Chemical-resistant gloves recommended (nitrile rubber preferred)
- Full protective clothing
- Impervious protective clothing for extensive exposure
- Long-sleeved shirts and long pants recommended
- Apron

Hands/feet protection:

- Wear chemical protective gloves, e.g. nitrile rubber
- Rubber boots recommended for large-scale applications

Respiratory protection:

- Generally not required for outdoor use with adequate ventilation
- For spray application or poorly ventilated areas: Use NIOSH/MSHA approved respirator
- Recommended filter type: Particulate filter (P95 minimum) for spray mist
- Organic vapor cartridge (Type A filter) if significant vapor exposure occurs
- Full face respirator may be required for extensive spray operations
- Wear a mask

Body protection:

- Impervious apron for protection against splashes
- Coveralls for extensive exposure
- Remove contaminated clothing immediately and wash before reuse

Other protection:

- Emergency eye wash and safety shower should be available
- Suitable facilities for washing hands and face should be available

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## SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Property                     | Value                           |
|------------------------------|---------------------------------|
| Appearance                   | Liquid, Colourless to yellowish |
| Physical state               | Liquid                          |
| Relative density (Water = 1) | 1                               |

|                                              |                                |
|----------------------------------------------|--------------------------------|
| Odor                                         | Mild                           |
| Partition coefficient n-octanol / water      | Not Available                  |
| Odor threshold                               | Not Available                  |
| Auto-ignition temperature (°C)               | Not Available                  |
| pH (as supplied)                             | 6 - 9                          |
| Decomposition temperature (°C)               | Not Available                  |
| Melting point / freezing point (°C)          | 0                              |
| Viscosity (cSt)                              | 1                              |
| Initial boiling point and boiling range (°C) | >100                           |
| Molecular weight (g/mol)                     | Not Applicable (mixture)       |
| Flash point (°C)                             | The mixture has no flashpoint. |
| Taste                                        | Not Available                  |
| Evaporation rate                             | Not Available                  |
| Explosive properties                         | Not explosive                  |
| Flammability                                 | Product is not inflammable.    |
| Oxidising properties                         | Not oxidizing                  |
| Upper Explosive Limit (%)                    | Not Available                  |
| Surface Tension (dyn/cm or mN/m)             | Not Available                  |
| Lower Explosive Limit (%)                    | Not Available                  |
| Volatile Component (%vol)                    | 46-48                          |
| Vapour pressure at 20°C                      | 23 mbar (7732-18-5 water)      |
| Gas group                                    | Not Applicable                 |
| Solubility in water                          | Fully miscible                 |
| pH as a solution (1%)                        | Not Available                  |
| Vapour density at 20°C (kPa)                 | Not Available                  |

## SECTION 10 Stability and reactivity

| Property                                  | Description                                                                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The classification criteria for "corrosive to metals" (CLP Annex I, section 2.16 / UN Transport Regs, Class 8) are <b>not fulfilled</b> . (S 4357) |
| <b>Reference to Section 7</b>             | For suitable vessel and piping materials, see Section 7 ("Requirements to be met by storerooms and containers").                                   |
| <b>Conditions to be avoided</b>           | No decomposition if used and stored according to specifications.                                                                                   |
| <b>Minimum shelf life</b>                 | 24 months from production date, if stored at approximately 20 °C.                                                                                  |
| <b>Possibility of hazardous reactions</b> | No dangerous reactions known.                                                                                                                      |
| <b>Conditions to avoid</b>                | No further relevant information available.                                                                                                         |
| <b>Incompatible materials</b>             | - Oxidizing agents- Anionic compounds                                                                                                              |
| <b>Hazardous decomposition products</b>   | None, if storage and handling are done according to specification.                                                                                 |

## SECTION 11 Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

- **Serious eye damage/irritation:** Causes serious eye damage.
- **Skin corrosion/irritation:** Causes severe skin burns.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **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.
- **Specific target organ toxicity – single exposure (STOT-SE):** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity – repeated exposure (STOT-RE):** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

Acute toxicity estimates (ATE) or LD50/LC50 values:

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

| Exposure Route | Type             | Value         | Species/Test Method           | Source |
|----------------|------------------|---------------|-------------------------------|--------|
| Oral           | LD <sub>50</sub> | 795 mg/kg     | Rat (OECD Test Guideline 401) | S 477  |
| Dermal         | ATE (calc.)      | > 5,000 mg/kg | Calculated value              | –      |

Source: Supplier SDS

## SECTION 12 Ecological information

### Toxicity

CCM contractor roof wash concentrate

| Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|---------------|--------------------|---------------|---------------|---------------|
| Not Available | Not Available      | Not Available | Not Available | Not Available |

Aquatic toxicity:

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

| Test Type                 | Duration | Species                   | Value       | Method/Test Guideline | Source        |
|---------------------------|----------|---------------------------|-------------|-----------------------|---------------|
| EC <sub>10</sub>          | 72 h     | Selenastrum capricornutum | 0.0025 mg/L | OECD 201              | S 470         |
| EC <sub>50</sub>          | 72 h     | Selenastrum capricornutum | 0.02 mg/L   | OECD 201              | S 470         |
| EC <sub>50</sub>          | 48 h     | Daphnia                   | 0.016 mg/L  | –                     | REACH Dossier |
| LC <sub>50</sub> (static) | 96 h     | Rainbow trout             | 0.85 mg/L   | OECD 203              | S 469         |
| NOEC                      | 21 d     | Daphnia                   | 0.025 mg/L  | OECD 211              | S 575         |
| NOEC                      | 28 d     | Fathead minnow            | 0.0322 mg/L | U.S. EPA FIFRA 72-4   | REACH Dossier |

Evaluation:

- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

Effect on Activated Sludge – 68424-85-1

| Test Type        | Organism/System  | Value  | Duration | Method   | Source |
|------------------|------------------|--------|----------|----------|--------|
| EC <sub>20</sub> | Activated sludge | 5 mg/L | 0.5 h    | OECD 209 | S 2020 |

Evaluation:

- Depending on concentration, toxic effects on activated sludge organisms are possible.

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#### Persistence and Degradability

##### Ready Biodegradability – 68424-85-1

| Test Type                       | Value | Method     | Source |
|---------------------------------|-------|------------|--------|
| Closed-Bottle Test (OECD 301 D) | > 60% | OECD 301 D | S 472  |

##### Evaluation:

- The component(s) is/are rapidly degradable.

##### Behaviour in Sewage Treatment Plants – 68424-85-1

| Test Type              | Result            | Method     | Source |
|------------------------|-------------------|------------|--------|
| Activated Sludge Units | > 90% elimination | OECD 303 A | S 1272 |

##### Evaluation:

- The substance is biodegradable/eliminable in activated sludge units.

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#### Bioaccumulative Potential

- Not worth mentioning accumulating in organisms.

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#### Mobility in Soil

- No further relevant information available.

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#### Results of PBT and vPvB Assessment

| Classification                                  | Result |
|-------------------------------------------------|--------|
| Persistent, bioaccumulative, and toxic (PBT)    | None   |
| Very persistent and very bioaccumulative (vPvB) | None   |

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#### Endocrine Disrupting Properties

- Data on endocrine disrupting properties in the environment are not available.

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### Other Adverse Effects

Other adverse effects: None

Chemical Oxygen Demand (COD): 1130 mg O<sub>2</sub>/g

Biological Oxygen Demand (BOD<sub>5</sub>): Not determined

Metals and their compounds (Directive 2006/11/EC): None

European Water Framework Directive (2000/60/EC):

The product does not contain any priority substances under the WFD that require water monitoring.

Absorbable organic halogen compounds (AOX – DIN EN ISO 9562 H 14):

The product does not contain organically bound halogens (AOX-free). Care should be taken to properly wash out the chloride when performing the AOX method.

Endocrine disrupting properties: Data on endocrine disrupting effects on the environment are not available.

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## SECTION 13 Disposal considerations

### Waste treatment methods

Product / Packaging disposal

Liquid waste:

- Do not pour down drains or into water courses
- Allow paint to dry completely before disposal as solid waste
- Dried paint film may be disposed of as non-hazardous solid waste
- Small amounts: brush out onto absorbent material, allow to dry, dispose in household refuse

Container disposal:

- Empty containers should be completely drained
- Triple rinse empty containers with water
- Puncture or crush empty containers to prevent reuse
- Recycling may be possible where facilities exist
- Do not reuse containers for food, feed, or drinking water

Large quantities:

- Consult local waste management authority for disposal options
- May be suitable for energy recovery in appropriate facilities
- Follow all local, regional, and national disposal regulations

General disposal guidance:

- Legislation addressing waste disposal requirements may differ by country, state and/or territory
- DO NOT allow wash water from cleaning or process equipment to enter drains
- Recycle wherever possible
- Consult manufacturer for recycling options
- Do not discharge the substance into the environment

## Disposal Requirements

- Packages that have been in direct contact with the product should be appropriately cleaned before disposal
- Do not allow product or wash water from cleaning or process equipment to enter drains or watercourses
- It is necessary to collect all wash water for treatment before disposal
- The generation of waste should be avoided or minimised wherever possible
- Disposal of this product should comply with local hazardous waste regulations
- For treating and discharging processes contact your local authority

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## SECTION 14 Transport information

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land"

- Dangerous Goods Class: 8
- Packing Group: II
- Hazchem Code: 2X
- Emergency Response Guide No: 14
- Proper Shipping Name: Disinfectant liquid, corrosive, N.O.S.

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), organic peroxides (Class 5.2) or radioactive substances (Class 7). Exemptions may apply

### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea

- UN No: 1903
- Dangerous Goods Class: 8
- Packing Group: II
- Proper Shipping Name: Disinfectant liquid, corrosive, N.O.S.
- Marine pollutant: Yes

### AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

- UN No: 1903
  - Dangerous Goods Class: 8
  - Packing Group: II
  - Proper Shipping Name: Disinfectant liquid, corrosive, N.O.S.
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## SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

This material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth)
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS)
- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC)

This substance is to be managed using the conditions specified in an applicable Group Standard

|                       |                                              |
|-----------------------|----------------------------------------------|
| HSR Number: HSR002526 | Cleaning Products (Corrosive) Group Standard |
|-----------------------|----------------------------------------------|

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

Approved Handler: Not Required

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides are found on the following regulatory lists:

- New Zealand Hazardous Substances and New Organisms (HSNO) Act – Classification of Chemicals
- New Zealand Hazardous Substances and New Organisms (HSNO) Act – Classification of Chemicals – Classification Data
- New Zealand Inventory of Chemicals (NZIoC)

### Hazardous Substance Location

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Quantities     |
|----------------|----------------|
| Not Applicable | Not Applicable |

### Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Class of substance | Quantities |
|--------------------|------------|
|--------------------|------------|

|                |                |
|----------------|----------------|
| Not Applicable | Not Applicable |
|----------------|----------------|

## Maximum quantities of certain hazardous substances permitted on passenger service vehicles

Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

| Hazard Class   | Gas (aggregate water capacity in mL) | Liquid (L)     | Solid (kg)     | Maximum quantity per package for each classification |
|----------------|--------------------------------------|----------------|----------------|------------------------------------------------------|
| Not Applicable | Not Applicable                       | Not Applicable | Not Applicable | Not Applicable                                       |

## Tracking Requirements

Not Applicable

## National Inventory Status

| National Inventory                              | Status |
|-------------------------------------------------|--------|
| Australia - AIIC / Australia Non-Industrial Use | Yes    |
| New Zealand - NZIoC                             | Yes    |

Legend: Yes = All CAS declared ingredients are on the inventory

No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# SECTION 16 Other information

Revision Date: 25/07/2025

Initial Date: 03/10/2022

## SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                                                      |
|---------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.0     | 25/07/2025     | Complete document with enhanced safety information, expanded handling procedures, detailed PPE recommendations, and comprehensive physical properties |

## Other information

Disclaimer: The information contained in this Safety Data Sheet is based on data from sources considered technically reliable. It is provided for guidance only and does not constitute a guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular applications.

### Training recommendations:

- Ensure all personnel are trained in safe handling procedures
- Provide training on emergency procedures and spill response
- Train workers in proper use of personal protective equipment
- Regular refresher training on chemical safety procedures

### Additional safety considerations:

- Maintain good housekeeping practices
- Ensure adequate ventilation in work areas
- Regular equipment maintenance and inspection
- Emergency procedures should be practiced regularly

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment.

### Definitions and Abbreviations:

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted No-Effect Concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- CAS No: Chemical Abstract Service number

- TWA: Time Weighted Average
- VOC: Volatile Organic Compounds – organic chemicals with high vapor pressure that contribute to air pollution
- PPE: Personal Protective Equipment
- NIOSH: National Institute for Occupational Safety and Health (US agency)
- MSHA: Mine Safety and Health Administration (US agency)
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- HSNO: Hazardous Substances and New Organisms Act 1996 (New Zealand)
- UN Number: United Nations number assigned to hazardous substances for transport identification
- HAZCHEM: Hazardous Materials Emergency Action Code for NZ/Australia used in transport emergency response
- Pictogram: Graphical symbol on labels used to convey chemical hazard information under GHS
- Signal Word: "Warning" or "Danger" used on GHS labels to indicate severity of hazard
- STOT: Specific Target Organ Toxicity – chemicals that cause non-lethal organ effects from single or repeated exposure
- LD50: Median Lethal Dose – dose required to kill 50% of test population
- LC50: Median Lethal Concentration – airborne concentration causing death in 50% of test population
- NZIoC: New Zealand Inventory of Chemicals – list of substances approved under the HSNO Act
- EPA Approval: Environmental Protection Authority approval of a substance under a Group Standard
- HSR Number: Hazardous Substances Register number issued under HSNO for regulatory tracking
- Group Standard: Approval covering groups of substances with similar properties and risks under HSNO

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end of SDS