



# Coloured Zinc (Aerosol)

## CRC Industries (CRC Industries New Zealand)

Chemwatch: 7924-71

Version No: 2.1

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

Chemwatch Hazard Alert Code: 4

Initial Date: 03/02/2025

Revision Date: 03/02/2025

Print Date: 08/10/2025

S.GHS.NZL.EN

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

#### Product Identifier

|                               |                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name                  | Coloured Zinc (Aerosol)                                                                                                                          |
| Chemical Name                 | Not Applicable                                                                                                                                   |
| Synonyms                      | 2090 WHITE ZINC; 2096 GREEN ZINC; 2097 BLUE ZINC; 2098 YELLOW ZINC; 2100 RED ZINC; 2101 ORANGE ZINC; 2089, 2129 BACK ZINC; 1753473 BACK ZINC MAX |
| Proper shipping name          | AEROSOLS                                                                                                                                         |
| Chemical formula              | Not Applicable                                                                                                                                   |
| Other means of identification | Not Available                                                                                                                                    |

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

|                          |                                                                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relevant identified uses | Anticorrosive paint. Application is by spray atomisation from a handheld aerosol pack<br>Application is by spray atomisation from a hand held aerosol pack<br>Use according to manufacturer's directions. |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                         |                                                     |
|-------------------------|-----------------------------------------------------|
| Registered company name | CRC Industries (CRC Industries New Zealand)         |
| Address                 | 10 Highbrook Drive East Tamaki Auckland New Zealand |
| Telephone               | +64 9 272 2700                                      |
| Fax                     | +64 9 274 9696                                      |
| Website                 | <a href="http://www.crc.co.nz">www.crc.co.nz</a>    |
| Email                   | - No EMAL ID NEEDED for NZ - JACK                   |

#### Emergency telephone number

|                                     |                                              |                                     |
|-------------------------------------|----------------------------------------------|-------------------------------------|
| Association / Organisation          | CRC Industries (CRC Industries New Zealand)  | CHEMWATCH EMERGENCY RESPONSE (24/7) |
| Emergency telephone number(s)       | NZ Poisons Centre 0800 POISON (0800 764 766) | +64 800 700 112 (ID#: 7924-71)      |
| Other emergency telephone number(s) | 111 (NZ Emergency Services)                  | +61 3 9573 3188                     |

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|                                                 |                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification <sup>[1]</sup>                   | Aerosols, Hazard Category 1, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2 |
| Legend:                                         | 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI                                                                                                                                         |
| Determined by Chemwatch using GHS/HSNO criteria | 2.1.2A, 6.1D (oral), 6.3A, 6.4A, 6.9B, 9.1B                                                                                                                                                                                                                                        |

#### Label elements

|                     |                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictogram(s) |     |
| Signal word         | <b>Danger</b>                                                                                                                                                                                                                                                                                                                       |

#### Hazard statement(s)

|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| <b>H222+H229</b> | Extremely flammable aerosol. Pressurized container: may burst if heated. |
| <b>H302</b>      | Harmful if swallowed.                                                    |
| <b>H315</b>      | Causes skin irritation.                                                  |
| <b>H319</b>      | Causes serious eye irritation.                                           |
| <b>H373</b>      | May cause damage to organs through prolonged or repeated exposure.       |
| <b>H411</b>      | Toxic to aquatic life with long lasting effects.                         |

#### Precautionary statement(s) Prevention

|             |                                                                                                |
|-------------|------------------------------------------------------------------------------------------------|
| <b>P210</b> | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| <b>P211</b> | Do not spray on an open flame or other ignition source.                                        |
| <b>P251</b> | Do not pierce or burn, even after use.                                                         |
| <b>P260</b> | Do not breathe mist/vapours/spray.                                                             |

#### Precautionary statement(s) Response

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <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>P314</b>           | Get medical advice/attention if you feel unwell.                                                                                 |
| <b>P337+P313</b>      | If eye irritation persists: Get medical advice/attention.                                                                        |
| <b>P391</b>           | Collect spillage.                                                                                                                |

#### Precautionary statement(s) Storage

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| <b>P410+P412</b> | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
|------------------|------------------------------------------------------------------------------|

#### Precautionary statement(s) Disposal

|             |                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>P501</b> | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|-------------|----------------------------------------------------------------------------------------------------------------------------------|

No further product hazard information.

## SECTION 3 Composition / information on ingredients

### Substances

See section below for composition of Mixtures

### Mixtures

| CAS No      | %[weight] | Name                                 |
|-------------|-----------|--------------------------------------|
| 68476-85-7. | 25-35     | <u>LPG (liquefied petroleum gas)</u> |
| 108-88-3    | 10-30     | <u>toluene</u>                       |
| 67-64-1     | 10-25     | <u>acetone</u>                       |
| 7779-90-0   | 1-10      | <u>zinc phosphate</u>                |
| 763-69-9    | 1-10      | <u>ethyl-3-ethoxypropionate</u>      |

**Legend:** **1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available**

## SECTION 4 First aid measures

### Description of first aid measures

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b> | <p>If aerosols come in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Transport to hospital or doctor without delay.</li> </ul> |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <ul style="list-style-type: none"> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin Contact</b> | <p>If solids or aerosol mists are deposited upon the skin:</p> <ul style="list-style-type: none"> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Remove any adhering solids with industrial skin cleansing cream.</li> <li>▶ <b>DO NOT use solvents.</b></li> <li>▶ Seek medical attention in the event of irritation.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Inhalation</b>   | <p>If aerosols, fumes or combustion products are inhaled:</p> <ul style="list-style-type: none"> <li>▶ Remove to fresh air.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Avoid giving milk or oils.</li> </ul> <p>Not considered a normal route of entry.</p> <ul style="list-style-type: none"> <li>▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> <li>▶ For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ <b>If swallowed do NOT induce vomiting.</b></li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>▶ Transport to hospital or doctor without delay.</li> </ul> |

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

### Extinguishing media

#### SMALL FIRE:

- ▶ Water spray, dry chemical or CO<sub>2</sub>

#### LARGE FIRE:

- ▶ Water spray or fog.

### Special hazards arising from the substrate or mixture

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Advice for firefighters

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Fire/Explosion Hazard</b> | <p>Combustion products include:</p> <p>carbon dioxide (CO<sub>2</sub>)</p> <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat or flame.</li> <li>▶ Vapour forms an explosive mixture with air.</li> <li>▶ Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> </ul> <p>metal oxides</p> <p>other pyrolysis products typical of burning organic material.</p> <p>carbon monoxide (CO)</p> <p><b>Contains low boiling substance:</b> Closed containers may rupture due to pressure buildup under fire conditions.</p> <p><b>WARNING:</b> Long standing in contact with air and light may result in the formation of potentially explosive peroxides.</p> |

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

See section 8

### Environmental precautions

See section 12

Methods and material for containment and cleaning up

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minor Spills | <ul style="list-style-type: none"><li>▶ Clean up all spills immediately.</li><li>▶ Avoid breathing vapours and contact with skin and eyes.</li><li>▶ Wear protective clothing, impervious gloves and safety glasses.</li><li>▶ Shut off all possible sources of ignition and increase ventilation.</li></ul>                                                                                                                                                                                                                                                     |
| Major Spills | <ul style="list-style-type: none"><li>▶ Clear area of personnel and move upwind.</li><li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li><li>▶ May be violently or explosively reactive.</li><li>▶ Wear breathing apparatus plus protective gloves.</li><li>▶ Clear area of all unprotected personnel and move upwind.</li><li>▶ Alert Emergency Authority and advise them of the location and nature of hazard.</li><li>▶ May be violently or explosively reactive.</li><li>▶ Wear full body clothing with breathing apparatus.</li></ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safe handling     | <ul style="list-style-type: none"><li>▶ Avoid all personal contact, including inhalation.</li><li>▶ Wear protective clothing when risk of exposure occurs.</li><li>▶ Use in a well-ventilated area.</li><li>▶ Prevent concentration in hollows and sumps.</li></ul>                                                                                                                                                                                                                  |
| Other information | <ul style="list-style-type: none"><li>▶ Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li><li>▶ Store in original containers in approved flammable liquid storage area.</li><li>▶ <b>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</b></li><li>▶ No smoking, naked lights, heat or ignition sources.</li><li>▶ Keep containers securely sealed.</li></ul> |

Conditions for safe storage, including any incompatibilities

|                         |                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Suitable container      | <ul style="list-style-type: none"><li>▶ Aerosol dispenser.</li><li>▶ Check that containers are clearly labelled.</li></ul> |
| Storage incompatibility | <ul style="list-style-type: none"><li>▶ Avoid reaction with oxidising agents</li></ul>                                     |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source                                         | Ingredient                    | Material name                              | TWA                   | STEL                  | Peak          | Notes                                                                                               |
|------------------------------------------------|-------------------------------|--------------------------------------------|-----------------------|-----------------------|---------------|-----------------------------------------------------------------------------------------------------|
| New Zealand Workplace Exposure Standards (WES) | LPG (liquefied petroleum gas) | LPG (Liquefied petroleum gas)              | 1000 ppm / 1800 mg/m3 | Not Available         | Not Available | Not Available                                                                                       |
| New Zealand Workplace Exposure Standards (WES) | toluene                       | Toluene (Toluol)                           | 20 ppm / 75 mg/m3     | 377 mg/m3 / 100 ppm   | Not Available | skin - Skin absorption oto - Ototoxin bio - Exposure can also be estimated by biological monitoring |
| New Zealand Workplace Exposure Standards (WES) | acetone                       | Acetone                                    | 500 ppm / 1185 mg/m3  | 2375 mg/m3 / 1000 ppm | Not Available | bio - Exposure can also be estimated by biological monitoring                                       |
| New Zealand Workplace Exposure Standards (WES) | zinc phosphate                | Respirable dust (not otherwise classified) | 3 mg/m3               | Not Available         | Not Available | Not Available                                                                                       |
| New Zealand Workplace Exposure Standards (WES) | zinc phosphate                | Inhalable dust (not otherwise classified)  | 10 mg/m3              | Not Available         | Not Available | Not Available                                                                                       |

| Ingredient                    | Original IDLH | Revised IDLH  |
|-------------------------------|---------------|---------------|
| LPG (liquefied petroleum gas) | Not Available | Not Available |
| toluene                       | 500 ppm       | Not Available |
| acetone                       | 2,500 ppm     | Not Available |
| zinc phosphate                | Not Available | Not Available |
| ethyl-3-ethoxypropionate      | Not Available | Not Available |

## Exposure controls

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>                                      | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p>                                                                                                                                                                                                                                                                                                 |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Eye and face protection</b>                                               | <ul style="list-style-type: none"> <li>▸ Close fitting gas tight goggles</li> <li><b>DO NOT wear contact lenses.</b></li> <li>▸ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.</li> <li>▸ No special equipment for minor exposure i.e. when handling small quantities.</li> <li>▸ OTHERWISE: For potentially moderate or heavy exposures:</li> <li>▸ Safety glasses with side shields.</li> <li>▸ NOTE: Contact lenses pose a special hazard; soft lenses may absorb irritants and ALL lenses concentrate them.</li> </ul> |
| <b>Skin protection</b>                                                       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Hands/feet protection</b>                                                 | <ul style="list-style-type: none"> <li>▸ No special equipment needed when handling small quantities.</li> <li>▸ OTHERWISE:</li> <li>▸ For potentially moderate exposures:</li> <li>▸ Wear general protective gloves, eg. light weight rubber gloves.</li> <li>▸ For potentially heavy exposures:</li> <li>▸ Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Body protection</b>                                                       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Other protection</b>                                                      | <p>No special equipment needed when handling small quantities.</p> <p><b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▸ Overalls.</li> <li>▸ Skin cleansing cream.</li> <li>▸ Eyewash unit.</li> <li>▸ The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.</li> <li>▸ Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost.</li> </ul> <p>BREITHERICK: Handbook of Reactive Chemical Hazards.</p>                                                                                                                                                                                                                                                                                          |

## Recommended material(s)

### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

**"Forsberg Clothing Performance Index".**

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

Coloured Zinc (Aerosol)

| Material         | CPI |
|------------------|-----|
| PE/EVAL/PE       | A   |
| TEFLON           | B   |
| BUTYL            | C   |
| BUTYL/NEOPRENE   | C   |
| CPE              | C   |
| HYPALON          | C   |
| NATURAL RUBBER   | C   |
| NATURAL+NEOPRENE | C   |
| NEOPRENE         | C   |
| NEOPRENE/NATURAL | C   |
| NITRILE          | C   |
| NITRILE+PVC      | C   |
| PVA              | C   |
| PVC              | C   |
| PVDC/PE/PVDC     | C   |

## Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator   |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 10 x ES                      | AX-AUS P3            | -                    | AX-PAPR-AUS / Class 1 P3 |
| up to 50 x ES                      | -                    | AX-AUS / Class 1 P3  | -                        |
| up to 100 x ES                     | -                    | AX-2 P3              | AX-PAPR-2 P3 ^           |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

|                   |   |
|-------------------|---|
| SARANEX-23        | C |
| SARANEX-23 2-PLY  | C |
| VITON             | C |
| VITON/CHLOROBUTYL | C |
| VITON/NEOPRENE    | C |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## SECTION 9 Physical and chemical properties

### Information on basic physical and chemical properties

|                                                       |                                                                   |                                                            |                |
|-------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|----------------|
| <b>Appearance</b>                                     | Coloured liquid aerosol with mild odour; does not mix with water. |                                                            |                |
| <b>Physical state</b>                                 | Liquid                                                            | <b>Relative density (Water = 1)</b>                        | Not Available  |
| <b>Odour</b>                                          | Not Available                                                     | <b>Partition coefficient n-octanol / water</b>             | Not Available  |
| <b>Odour threshold</b>                                | Not Available                                                     | <b>Auto-ignition temperature (°C)</b>                      | Not Available  |
| <b>pH (as supplied)</b>                               | Not Applicable                                                    | <b>Decomposition temperature (°C)</b>                      | Not Available  |
| <b>Melting point / freezing point (°C)</b>            | Not Available                                                     | <b>Viscosity (cSt)</b>                                     | Not Available  |
| <b>Initial boiling point and boiling range (°C)</b>   | Not Available                                                     | <b>Molecular weight (g/mol)</b>                            | Not Applicable |
| <b>Flash point (°C)</b>                               | -81 (propellant)                                                  | <b>Taste</b>                                               | Not Available  |
| <b>Evaporation rate</b>                               | Not Available                                                     | <b>Explosive properties</b>                                | Not Available  |
| <b>Flammability</b>                                   | HIGHLY FLAMMABLE.                                                 | <b>Oxidising properties</b>                                | Not Available  |
| <b>Upper Explosive Limit (%)</b>                      | Not Available                                                     | <b>Surface Tension (dyn/cm or mN/m)</b>                    | Not Available  |
| <b>Lower Explosive Limit (%)</b>                      | Not Available                                                     | <b>Volatile Component (%vol)</b>                           | Not Available  |
| <b>Vapour pressure (kPa)</b>                          | Not Available                                                     | <b>Gas group</b>                                           | Not Available  |
| <b>Solubility in water</b>                            | Immiscible                                                        | <b>pH as a solution (1%)</b>                               | Not Applicable |
| <b>Vapour density (Air = 1)</b>                       | Not Available                                                     | <b>VOC g/L</b>                                             | Not Available  |
| <b>Heat of Combustion (kJ/g)</b>                      | Not Available                                                     | <b>Ignition Distance (cm)</b>                              | Not Available  |
| <b>Flame Height (cm)</b>                              | Not Available                                                     | <b>Flame Duration (s)</b>                                  | Not Available  |
| <b>Enclosed Space Ignition Time Equivalent (s/m3)</b> | Not Available                                                     | <b>Enclosed Space Ignition Deflagration Density (g/m3)</b> | Not Available  |

## SECTION 10 Stability and reactivity

|                                           |                                                                                                                                                                                                            |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | See section 7                                                                                                                                                                                              |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Elevated temperatures.</li> <li>▶ Presence of open flame.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                              |
| <b>Conditions to avoid</b>                | See section 7                                                                                                                                                                                              |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                              |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                              |

## SECTION 11 Toxicological information

### Information on toxicological effects

|                                             |                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>a) Acute Toxicity</b>                    | There is sufficient evidence to classify this material as acutely toxic.                                     |
| <b>b) Skin Irritation/Corrosion</b>         | There is sufficient evidence to classify this material as skin corrosive or irritating.                      |
| <b>c) Serious Eye Damage/Irritation</b>     | There is sufficient evidence to classify this material as eye damaging or irritating                         |
| <b>d) Respiratory or Skin sensitisation</b> | Based on available data, the classification criteria are not met.                                            |
| <b>e) Mutagenicity</b>                      | Based on available data, the classification criteria are not met.                                            |
| <b>f) Carcinogenicity</b>                   | Based on available data, the classification criteria are not met.                                            |
| <b>g) Reproductivity</b>                    | Based on available data, the classification criteria are not met.                                            |
| <b>h) STOT - Single Exposure</b>            | Based on available data, the classification criteria are not met.                                            |
| <b>i) STOT - Repeated Exposure</b>          | There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure |
| <b>j) Aspiration Hazard</b>                 | Based on available data, the classification criteria are not met.                                            |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | <p>There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.</p> <p>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.</p> <p>Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.</p> <p>Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.</p> <p>The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression. These compounds may also act as general anaesthetics. Whole body symptoms of poisoning include light-headedness, nervousness, apprehension, a feeling of well-being, confusion, dizziness, drowsiness, ringing in the ears, blurred or double vision, vomiting and sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, depression of breathing, and arrest. Heart stoppage may result from cardiovascular collapse.</p> <p><b>WARNING: Intentional misuse by concentrating/inhaling contents may be lethal.</b></p> <p>Exposure to hydrocarbons may result in irregularity of heart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea.</p> |
| <b>Ingestion</b>    | <p>Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.</p> <p>There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. At sufficiently high doses the material may be hepatotoxic (i.e. poisonous to the liver).</p> <p>Not normally a hazard due to physical form of product.</p> <p>Considered an unlikely route of entry in commercial/industrial environments</p> <p>Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Skin Contact</b> | <p>There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs.</p> <p>Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.</p> <p>Spray mist may produce discomfort</p> <p>Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.</p> <p>The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Eye</b>          | <p>Not considered to be a risk because of the extreme volatility of the gas.</p> <p>There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.</p> <p>The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.</p> <p>The liquid may produce eye discomfort and is capable of causing temporary impairment of vision and/or transient eye inflammation, ulceration</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chronic</b>      | <p>Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.</p> <p>Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.</p> <p>This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.</p> <p>Ample evidence exists that this material directly causes reduced fertility</p> <p>Ample evidence exists that developmental disorders are directly caused by human exposure to the material.</p> <p>Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.</p> <p>Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                |                 |                   |
|--------------------------------|-----------------|-------------------|
| <b>Coloured Zinc (Aerosol)</b> | <b>TOXICITY</b> | <b>IRRITATION</b> |
|--------------------------------|-----------------|-------------------|

|                               |                                                                                                                                                                                                                                    |                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
|                               | Not Available                                                                                                                                                                                                                      | Not Available                                                    |
| LPG (liquefied petroleum gas) | <b>TOXICITY</b>                                                                                                                                                                                                                    | <b>IRRITATION</b>                                                |
|                               | Inhalation (Rat) LC50: 658 mg/l4h <sup>[2]</sup>                                                                                                                                                                                   | Not Available                                                    |
| toluene                       | <b>TOXICITY</b>                                                                                                                                                                                                                    | <b>IRRITATION</b>                                                |
|                               | Dermal (rabbit) LD50: 12124 mg/kg <sup>[2]</sup>                                                                                                                                                                                   | Eye (Human): 300ppm                                              |
|                               | Inhalation (Rat) LC50: >13350 ppm4h <sup>[2]</sup>                                                                                                                                                                                 | Eye (Rodent - rabbit): 0.1mL                                     |
|                               | Oral (Rat) LD50: 636 mg/kg <sup>[2]</sup>                                                                                                                                                                                          | Eye (Rodent - rabbit): 0.1mL - Severe                            |
|                               |                                                                                                                                                                                                                                    | Eye (Rodent - rabbit): 100mg/30S - Mild                          |
|                               |                                                                                                                                                                                                                                    | Eye (Rodent - rabbit): 2mg/24H - Severe                          |
|                               |                                                                                                                                                                                                                                    | Eye (Rodent - rabbit): 870ug - Mild                              |
|                               |                                                                                                                                                                                                                                    | Eye: adverse effect observed (irritating) <sup>[1]</sup>         |
|                               |                                                                                                                                                                                                                                    | Skin (Mammal - pig): 250uL/24H - Mild                            |
|                               |                                                                                                                                                                                                                                    | Skin (Rodent - rabbit): 20mg/24H - Moderate                      |
|                               |                                                                                                                                                                                                                                    | Skin (Rodent - rabbit): 435mg - Mild                             |
|                               |                                                                                                                                                                                                                                    | Skin (Rodent - rabbit): 500mg - Moderate                         |
|                               |                                                                                                                                                                                                                                    | Skin: adverse effect observed (irritating) <sup>[1]</sup>        |
|                               |                                                                                                                                                                                                                                    | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| acetone                       | <b>TOXICITY</b>                                                                                                                                                                                                                    | <b>IRRITATION</b>                                                |
|                               | Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>                                                                                                                                                                                   | Eye (Human): 186300ppm - Mild                                    |
|                               | Inhalation (Mouse) LC50: 44 mg/L4h <sup>[2]</sup>                                                                                                                                                                                  | Eye (Human): 500ppm                                              |
|                               | Oral (Rat) LD50: 5800 mg/kg <sup>[2]</sup>                                                                                                                                                                                         | Eye (Rodent - rabbit): 10uL - Mild                               |
|                               |                                                                                                                                                                                                                                    | Eye (Rodent - rabbit): 20mg - Severe                             |
|                               |                                                                                                                                                                                                                                    | Eye (Rodent - rabbit): 20mg/24H - Moderate                       |
|                               |                                                                                                                                                                                                                                    | Eye: adverse effect observed (irritating) <sup>[1]</sup>         |
|                               |                                                                                                                                                                                                                                    | Skin (Rodent - rabbit): 395mg - Mild                             |
|                               |                                                                                                                                                                                                                                    | Skin (Rodent - rabbit): 500mg/24H - Mild                         |
|                               |                                                                                                                                                                                                                                    | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| zinc phosphate                | <b>TOXICITY</b>                                                                                                                                                                                                                    | <b>IRRITATION</b>                                                |
|                               | Inhalation (Rat) LC50: >5.7 mg/L4h <sup>[1]</sup>                                                                                                                                                                                  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                               | Oral (Rat) LD50: >5000 mg/kg <sup>[2]</sup>                                                                                                                                                                                        | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| ethyl-3-ethoxypropionate      | <b>TOXICITY</b>                                                                                                                                                                                                                    | <b>IRRITATION</b>                                                |
|                               | Dermal (rabbit) LD50: 4076 mg/kg <sup>[2]</sup>                                                                                                                                                                                    | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |
|                               | Inhalation (Rat) LC50: 1250 ppm4h <sup>[2]</sup>                                                                                                                                                                                   | Skin (Rodent - rabbit): 500mg/24H - Mild                         |
|                               | Oral (Rat) LD50: ~3200-5000 mg/kg <sup>[2]</sup>                                                                                                                                                                                   | Skin: no adverse effect observed (not irritating) <sup>[1]</sup> |
| <b>Legend:</b>                | <b>1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances</b> |                                                                  |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LPG (LIQUEFIED PETROLEUM GAS) | No significant acute toxicological data identified in literature search.<br>inhalation of the gas                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TOLUENE                       | For toluene:<br>Acute toxicity: Humans exposed to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis (sleepiness) and death. When inhaled or swallowed, toluene can cause severe central nervous system depression, and in large doses has a narcotic effect. 60mL has caused death. Death of heart muscle fibres, liver swelling, congestion and bleeding of the lungs and kidney injury were all found on autopsy. Exposure to inhalation at a concentration of 600 parts per million for 8 hours resulted in the same and more serious symptoms including euphoria (a feeling of well-being), dilated pupils, convulsions and nausea. |
| ACETONE                       | For acetone:<br>The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. Animal testing shows acetone may cause anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/m3 does not negatively impact an individual's emotional regulation, behaviour, or learning ability.                                                                                                                                                                                                                                                                                                                                                   |

|                                                             |                                                                                                                                                                                                |                                 |   |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---|
| <b>ETHYL-3-ETHOXYPROPIONATE</b>                             | * Union Carbide ** Endura Manufacturing                                                                                                                                                        |                                 |   |
| <b>TOLUENE &amp; ACETONE &amp; ETHYL-3-ETHOXYPROPIONATE</b> | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. |                                 |   |
| <b>Acute Toxicity</b>                                       | ✓                                                                                                                                                                                              | <b>Carcinogenicity</b>          | ✗ |
| <b>Skin Irritation/Corrosion</b>                            | ✓                                                                                                                                                                                              | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>                        | ✓                                                                                                                                                                                              | <b>STOT - Single Exposure</b>   | ✗ |
| <b>Respiratory or Skin sensitisation</b>                    | ✗                                                                                                                                                                                              | <b>STOT - Repeated Exposure</b> | ✓ |
| <b>Mutagenicity</b>                                         | ✗                                                                                                                                                                                              | <b>Aspiration Hazard</b>        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
✓ – Data available to make classification

## SECTION 12 Ecological information

### Toxicity

|                                      |                 |                           |                               |                   |               |
|--------------------------------------|-----------------|---------------------------|-------------------------------|-------------------|---------------|
| <b>Coloured Zinc (Aerosol)</b>       | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | Not Available   | Not Available             | Not Available                 | Not Available     | Not Available |
| <b>LPG (liquefied petroleum gas)</b> | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | Not Available   | Not Available             | Not Available                 | Not Available     | Not Available |
| <b>toluene</b>                       | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | EC50            | 72h                       | Algae or other aquatic plants | 12.5mg/L          | 4             |
|                                      | EC50            | 48h                       | Crustacea                     | 3.78mg/L          | 5             |
|                                      | NOEC(ECx)       | 168h                      | Crustacea                     | 0.74mg/l          | 2             |
|                                      | EC50            | 96h                       | Algae or other aquatic plants | >376.71mg/L       | 4             |
|                                      | LC50            | 96h                       | Fish                          | 5-35mg/l          | 4             |
| <b>acetone</b>                       | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | EC50            | 72h                       | Algae or other aquatic plants | 5600-10000mg/L    | 4             |
|                                      | EC50            | 48h                       | Crustacea                     | 6098.4mg/L        | 5             |
|                                      | EC50            | 96h                       | Algae or other aquatic plants | 9.873-27.684mg/l  | 4             |
|                                      | NOEC(ECx)       | 12h                       | Fish                          | 0.001mg/L         | 4             |
|                                      | LC50            | 96h                       | Fish                          | 3744.6-5000.7mg/L | 4             |
| <b>zinc phosphate</b>                | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | EC50            | 72h                       | Algae or other aquatic plants | 0.051mg/L         | 2             |
|                                      | EC50            | 48h                       | Crustacea                     | 0.105mg/L         | 2             |
|                                      | EC50            | 96h                       | Algae or other aquatic plants | 0.042mg/L         | 2             |
|                                      | EC10(ECx)       | 168h                      | Algae or other aquatic plants | 0.003mg/L         | 2             |
|                                      | LC50            | 96h                       | Fish                          | 0.09mg/L          | 4             |
| <b>ethyl-3-ethoxypropionate</b>      | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>      | <b>Source</b> |
|                                      | EC50            | 72h                       | Algae or other aquatic plants | >114.86mg/l       | 2             |
|                                      | EC50            | 48h                       | Crustacea                     | 970mg/l           | 1             |
|                                      | EC50(ECx)       | 48h                       | Crustacea                     | 970mg/l           | 1             |
|                                      | LC50            | 96h                       | Fish                          | 45.3mg/l          | 2             |

**Legend:** *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient               | Persistence: Water/Soil   | Persistence: Air                 |
|--------------------------|---------------------------|----------------------------------|
| toluene                  | LOW (Half-life = 28 days) | LOW (Half-life = 4.33 days)      |
| acetone                  | LOW (Half-life = 14 days) | MEDIUM (Half-life = 116.25 days) |
| ethyl-3-ethoxypropionate | LOW                       | LOW                              |

Bioaccumulative potential

| Ingredient                    | Bioaccumulation     |
|-------------------------------|---------------------|
| LPG (liquefied petroleum gas) | LOW (LogKOW = 3.39) |
| toluene                       | LOW (BCF = 90)      |
| acetone                       | LOW (BCF = 0.69)    |
| ethyl-3-ethoxypropionate      | LOW (LogKOW = 1.08) |

Mobility in soil

| Ingredient               | Mobility               |
|--------------------------|------------------------|
| toluene                  | LOW (Log KOC = 268)    |
| acetone                  | HIGH (Log KOC = 1.981) |
| ethyl-3-ethoxypropionate | LOW (Log KOC = 10)     |

SECTION 13 Disposal considerations

Waste treatment methods

|                              |                                                                                                                                                                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product / Packaging disposal | <ul style="list-style-type: none"><li>▶ Consult State Land Waste Management Authority for disposal.</li><li>▶ Discharge contents of damaged aerosol cans at an approved site.</li><li>▶ Allow small quantities to evaporate.</li><li>▶ <b>DO NOT incinerate or puncture aerosol cans.</b></li></ul> |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

Disposal Requirements

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

SECTION 14 Transport information

Labels Required

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
|                  |  |
| Marine Pollutant |  |
| HAZCHEM          | Not Applicable                                                                      |

Land transport (UN)

|                                  |                                                    |       |     |
|----------------------------------|----------------------------------------------------|-------|-----|
| 14.1. UN number or ID number     | 1950                                               |       |     |
| 14.2. UN proper shipping name    | AEROSOLS                                           |       |     |
| 14.3. Transport hazard class(es) | <table><tr><td>Class</td><td>2.1</td></tr></table> | Class | 2.1 |
| Class                            | 2.1                                                |       |     |

|                                    |                           |                             |
|------------------------------------|---------------------------|-----------------------------|
|                                    | Subsidiary Hazard         | Not Applicable              |
| 14.4. Packing group                | Not Applicable            |                             |
| 14.5. Environmental hazard         | Environmentally hazardous |                             |
| 14.6. Special precautions for user | Special provisions        | 63; 190; 277; 327; 344; 381 |
|                                    | Limited quantity          | 1000ml                      |

Air transport (ICAO-IATA / DGR)

|                                    |                                                           |                |
|------------------------------------|-----------------------------------------------------------|----------------|
| 14.1. UN number                    | 1950                                                      |                |
| 14.2. UN proper shipping name      | Aerosols, flammable                                       |                |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class                                           | 2.1            |
|                                    | ICAO / IATA Subsidiary Hazard                             | Not Applicable |
|                                    | ERG Code                                                  | 10L            |
| 14.4. Packing group                | Not Applicable                                            |                |
| 14.5. Environmental hazard         | Environmentally hazardous                                 |                |
| 14.6. Special precautions for user | Special provisions                                        | A145 A167 A802 |
|                                    | Cargo Only Packing Instructions                           | 203            |
|                                    | Cargo Only Maximum Qty / Pack                             | 150 kg         |
|                                    | Passenger and Cargo Packing Instructions                  | 203            |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | 75 kg          |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Y203           |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | 30 kg G        |

Sea transport (IMDG-Code / GGVSee)

|                                    |                        |                            |
|------------------------------------|------------------------|----------------------------|
| 14.1. UN number                    | 1950                   |                            |
| 14.2. UN proper shipping name      | AEROSOLS               |                            |
| 14.3. Transport hazard class(es)   | IMDG Class             | 2.1                        |
|                                    | IMDG Subsidiary Hazard | Not Applicable             |
| 14.4. Packing group                | Not Applicable         |                            |
| 14.5 Environmental hazard          | Marine Pollutant       |                            |
| 14.6. Special precautions for user | EMS Number             | F-D, S-U                   |
|                                    | Special provisions     | 63 190 277 327 344 381 959 |
|                                    | Limited Quantities     | 1000 ml                    |

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name                  | Group         |
|-------------------------------|---------------|
| LPG (liquefied petroleum gas) | Not Available |
| toluene                       | Not Available |
| acetone                       | Not Available |
| zinc phosphate                | Not Available |
| ethyl-3-ethoxypropionate      | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name                  | Ship Type     |
|-------------------------------|---------------|
| LPG (liquefied petroleum gas) | Not Available |
| toluene                       | Not Available |
| acetone                       | Not Available |
| zinc phosphate                | Not Available |
| ethyl-3-ethoxypropionate      | Not Available |

## SECTION 15 Regulatory information

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

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

| HSR Number | Group Standard                         |
|------------|----------------------------------------|
| HSR002515  | Aerosols Flammable Group Standard 2020 |

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

#### LPG (liquefied petroleum gas) is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List  
New Zealand Approved Hazardous Substances with controls  
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)  
New Zealand Workplace Exposure Standards (WES)

#### toluene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List  
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic  
New Zealand Approved Hazardous Substances with controls  
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)  
New Zealand Workplace Exposure Standards (WES)

#### acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls  
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)  
New Zealand Workplace Exposure Standards (WES)

#### zinc phosphate is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)  
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)  
New Zealand Land Transport Rule: Dangerous Goods 2005 - Schedule 1 Quantity limits for dangerous goods  
New Zealand Workplace Exposure Standards (WES)

#### ethyl-3-ethoxypropionate is 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)

### Additional Regulatory Information

Not Applicable

### Hazardous Substance Location

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

| Hazard Class | Quantity (Closed Containers)       | Quantity (Open Containers)         |
|--------------|------------------------------------|------------------------------------|
| 2.1.2A       | 3 000 L (aggregate water capacity) | 3 000 L (aggregate water capacity) |

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 |

Refer Group Standards for further information

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 |
|--------------|--------------------------------------|------------|------------|------------------------------------------------------|
| 2.1.2A       |                                      |            |            | 1L (aggregate water capacity)                        |

Tracking Requirements

Not Applicable

National Inventory Status

| National Inventory                                | Status                                                                                                                                                                                                          |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Australia - AIIC / Australia Non-Industrial Use   | Yes                                                                                                                                                                                                             |
| Canada - DSL                                      | Yes                                                                                                                                                                                                             |
| Canada - NDSL                                     | No (LPG (liquefied petroleum gas); toluene; acetone; ethyl-3-ethoxypropionate)                                                                                                                                  |
| China - IECSC                                     | Yes                                                                                                                                                                                                             |
| Europe - EINEC / ELINCS / NLP                     | Yes                                                                                                                                                                                                             |
| Japan - ENCS                                      | Yes                                                                                                                                                                                                             |
| Korea - KECI                                      | Yes                                                                                                                                                                                                             |
| New Zealand - NZIoC                               | Yes                                                                                                                                                                                                             |
| Philippines - PICCS                               | Yes                                                                                                                                                                                                             |
| USA - TSCA                                        | All chemical substances in this product have been designated as TSCA Inventory 'Active'                                                                                                                         |
| Taiwan - TCSI                                     | Yes                                                                                                                                                                                                             |
| Mexico - INSQ                                     | No (zinc phosphate)                                                                                                                                                                                             |
| Vietnam - NCI                                     | Yes                                                                                                                                                                                                             |
| Russia - FBEPH                                    | Yes                                                                                                                                                                                                             |
| UAE - Control List (Banned/Restricted Substances) | No (LPG (liquefied petroleum gas); toluene; acetone; zinc phosphate; ethyl-3-ethoxypropionate)                                                                                                                  |
| Legend:                                           | <b>Yes = All CAS declared ingredients are on the inventory</b><br><b>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</b> |

SECTION 16 Other information

|               |            |
|---------------|------------|
| Revision Date | 03/02/2025 |
| Initial Date  | 03/02/2025 |

SDS Version Summary

| Version | Date of Update | Sections Updated                                                                                                               |
|---------|----------------|--------------------------------------------------------------------------------------------------------------------------------|
| 2.1     | 03/02/2025     | Hazards identification - Classification, Identification of the substance / mixture and of the company / undertaking - Synonyms |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

## 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
  
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.

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