

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : WELDC/AL  
**Product name** : WELD #2 WELD-THROUGH COPPER RICH PRIMER AEROSOL  
**Date of issue** : 13 May 2025  
**Version** : 1

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

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

**Supplier's details** : U-POL Australia Pty Limited  
 55 Leland Street, Penrith, NSW 2750  
 Australia  
 02 4731 2655  
 info@u-pol.com.au

**Product information** : (855) 6-AXALTA

**Emergency telephone number** : Australia (CHEMTREC): + (61) - 290372994

### Section 2. Hazard(s) identification

Classified as **HAZARDOUS** according to the GHS criteria under Australian Work Health Safety (WHS) Act 2011.

Classified as **DANGEROUS GOODS** according to the Australian Dangerous Goods (ADG).

**Classification of the substance or mixture** : AEROSOLS - Category 1  
 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A  
 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3

#### GHS label elements

**Hazard pictograms** :



**Signal word** : **DANGER**

**Hazard statements** : **H222, H229** - Extremely flammable aerosol. Pressurised container: may burst if heated.  
**H319** - Causes serious eye irritation.  
**H336** - May cause drowsiness or dizziness.

#### Precautionary statements

**Prevention** : P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 - Do not spray on an open flame or other ignition source.  
 P261 - Avoid breathing dust or mist.  
 P251 - Do not pierce or burn, even after use.

## Section 2. Hazard(s) identification

|                                    |                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Response</b>                    | : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| <b>Storage</b>                     | : P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.<br>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.                                                                                                                                        |
| <b>Disposal</b>                    | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                            |
| <b>Supplemental label elements</b> | : Repeated exposure may cause skin dryness or cracking.                                                                                                                                                                                                                                                               |

**Other hazards which do not result in classification** : None known.

## Section 3. Composition and ingredient information

**Substance/mixture** : Mixture

| Ingredient name             | % (w/w)  | CAS number |
|-----------------------------|----------|------------|
| dimethyl ether              | 30 - <60 | 115-10-6   |
| acetone                     | 10 - <30 | 67-64-1    |
| tert-butyl acetate          | 5 - <10  | 540-88-5   |
| 1-methoxy-2-propanol        | 5 - <10  | 107-98-2   |
| butan-1-ol                  | 1 - <3   | 71-36-3    |
| trizinc bis(orthophosphate) | 1 - <3   | 7779-90-0  |
| Kaolin                      | 1 - <3   | 1332-58-7  |

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**The total concentration of ingredients in this product, reported or not in this section, is 100%.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### Description of necessary first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Inhalation</b>   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Skin contact</b> | : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Section 4. First aid measures

**Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.  
**Skin contact** : Defatting to the skin. May cause skin dryness and irritation.  
**Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness  
**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
**Skin contact** : Adverse symptoms may include the following:  
irritation  
dryness  
cracking  
**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.  
**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
phosphorus oxides  
metal oxide/oxides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name      | Exposure limits                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dimethyl ether       | <b>Safe Work Australia (Australia, 1/2024)</b><br>TWA 8 hours: 400 ppm.<br>TWA 8 hours: 760 mg/m³.<br>STEL 15 minutes: 500 ppm.<br>STEL 15 minutes: 950 mg/m³.    |
| acetone              | <b>Safe Work Australia (Australia, 1/2024)</b><br>STEL 15 minutes: 2375 mg/m³.<br>STEL 15 minutes: 1000 ppm.<br>TWA 8 hours: 1185 mg/m³.<br>TWA 8 hours: 500 ppm. |
| tert-butyl acetate   | <b>Safe Work Australia (Australia, 1/2024)</b><br>TWA 8 hours: 950 mg/m³.<br>TWA 8 hours: 200 ppm.                                                                |
| 1-methoxy-2-propanol | <b>Safe Work Australia (Australia, 1/2024)</b><br>STEL 15 minutes: 553 mg/m³.<br>STEL 15 minutes: 150 ppm.                                                        |

Section 8. Exposure controls and personal protection

|                             |                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| butan-1-ol                  | TWA 8 hours: 369 mg/m³.<br>TWA 8 hours: 100 ppm.<br><b>Safe Work Australia (Australia, 1/2024)</b> Absorbed through skin.<br>PEAK: 50 ppm.<br>PEAK: 152 mg/m³.                                                                                                                                                                                                                                 |
| trizinc bis(orthophosphate) | <b>DFG MAC-values list (Germany, 7/2023) [Zinc and its inorganic compounds]</b> Develop C.<br>PEAK 15 minutes: 0.4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: respirable fraction.<br>TWA 8 hours: 2 mg/m³. Form: inhalable fraction.<br>TWA 8 hours: 0.1 mg/m³. Form: respirable fraction.<br>PEAK 15 minutes: 4 mg/m³ 4 times per shift [Interval: 1 hour]. Form: inhalable fraction. |
| Kaolin                      | <b>Safe Work Australia (Australia, 1/2024)</b><br>TWA 8 hours: 10 mg/m³.                                                                                                                                                                                                                                                                                                                       |

**Biological exposure indices**  
No exposure indices known.

- Appropriate engineering controls**
- : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls**
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures**
- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection**
- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection**
- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## Section 8. Exposure controls and personal protection

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Body protection</b>        | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| <b>Other skin protection</b>  | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.                                                                                                                                                                                               |
| <b>Respiratory protection</b> | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.                                                                                                                                        |

## Section 9. Physical and chemical properties

### Appearance

|                                                     |                                                                                                                                          |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Physical state</b>                               | : Liquid.                                                                                                                                |
| <b>Colour</b>                                       | : Copper.                                                                                                                                |
| <b>Odour</b>                                        | : Characteristic.                                                                                                                        |
| <b>Odour threshold</b>                              | : Not available.                                                                                                                         |
| <b>pH</b>                                           | : Not applicable.                                                                                                                        |
| <b>Melting point</b>                                | : Technically not possible to measure                                                                                                    |
| <b>Boiling point</b>                                | : Not applicable.                                                                                                                        |
| <b>Flash point</b>                                  | : Closed cup: -41°C (-41.8°F)                                                                                                            |
| <b>Evaporation rate</b>                             | : Not available.                                                                                                                         |
| <b>Flammability (solid, gas)</b>                    | : Not available.                                                                                                                         |
| <b>Lower and upper explosive (flammable) limits</b> | : Lower: 1.2%<br>Upper: 26.2%                                                                                                            |
| <b>Vapour pressure</b>                              | : 213 kPa (1597.7 mm Hg)                                                                                                                 |
| <b>Vapour density</b>                               | : Not available.                                                                                                                         |
| <b>Density</b>                                      | : 0.806 g/cm <sup>3</sup>                                                                                                                |
| <b>Solubility(ies)</b>                              | :<br>Not available.                                                                                                                      |
| <b>Partition coefficient: n-octanol/water</b>       | : Not applicable.                                                                                                                        |
| <b>Auto-ignition temperature</b>                    | : 270°C (518°F)                                                                                                                          |
| <b>Decomposition temperature</b>                    | : Not applicable.                                                                                                                        |
| <b>Viscosity</b>                                    | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): Not available. |
| <b>Flow time (ISO 2431)</b>                         | : Not available.                                                                                                                         |

### Aerosol product

|                           |              |
|---------------------------|--------------|
| <b>Type of aerosol</b>    | : Spray      |
| <b>Heat of combustion</b> | : 24.16 kJ/g |

## Section 10. Stability and reactivity

|                                           |                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : The product is stable.                                                                               |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame).                                             |
| <b>Incompatible materials</b>             | : No specific data.                                                                                    |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                          | Species | Dose                    | Exposure |
|-------------------------|---------------------------------|---------|-------------------------|----------|
| dimethyl ether          | LC50 Inhalation Gas.            | Rat     | 164000 ppm              | 4 hours  |
|                         | LC50 Inhalation Vapour          | Rat     | 309 g/m <sup>3</sup>    | 4 hours  |
|                         | LD50 Dermal                     | Rat     | >99999 mg/kg            | -        |
| acetone                 | LD50 Oral                       | Rat     | >99999 mg/kg            | -        |
|                         | LC50 Inhalation Vapour          | Rat     | 21 mg/l                 | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 2001 mg/kg              | -        |
| tert-butyl acetate      | LD50 Oral                       | Rat     | 5800 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 4100 mg/kg              | -        |
| 1-methoxy-2-propanol    | LD50 Dermal                     | Rabbit  | 13 g/kg                 | -        |
|                         | LD50 Oral                       | Rat     | 6600 mg/kg              | -        |
| butan-1-ol              | LC50 Inhalation Vapour          | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | 3400 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 790 mg/kg               | -        |
| Kaolin                  | LC50 Inhalation Dusts and mists | Rat     | >5.07 mg/l              | 4 hours  |
|                         | LD50 Dermal                     | Rat     | >5000 mg/kg             | -        |
|                         | LD50 Oral                       | Rat     | >5000 mg/kg             | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| acetone                 | Eyes - Mild irritant     | Human   | -     | 186300 ppm      | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 10 uL           | -           |
|                         | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 20 mg           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 395 mg          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
| tert-butyl acetate      | Eyes - Mild irritant     | Rabbit  | -     | 100 uL          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 uL | -           |
| 1-methoxy-2-propanol    | Skin - Mild irritant     | Rabbit  | -     | 500 mg          | -           |
| butan-1-ol              | Eyes - Cornea opacity    | Rabbit  | 2.11  | -               | 7 days      |

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|  |                          |        |   |                |   |
|--|--------------------------|--------|---|----------------|---|
|  | Eyes - Severe irritant   | Rabbit | - | 0.005 MI       | - |
|  | Eyes - Severe irritant   | Rabbit | - | 24 hours 2 mg  | - |
|  | Skin - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |

### Sensitisation

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name                 | Category   | Route of exposure | Target organs                |
|----------------------|------------|-------------------|------------------------------|
| acetone              | Category 3 | -                 | Narcotic effects             |
| tert-butyl acetate   | Category 3 | -                 | Narcotic effects             |
| 1-methoxy-2-propanol | Category 3 | -                 | Narcotic effects             |
| butan-1-ol           | Category 3 | -                 | Respiratory tract irritation |
| -                    | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

## Section 11. Toxicological information

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| <b>Skin contact</b> | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking                                                                                                        |
| <b>Ingestion</b>    | : No specific data.                                                                                                                                                                       |

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Potential chronic health effects

Not available.

|                              |                                                                                                        |
|------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>General</b>               | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. |
| <b>Carcinogenicity</b>       | : No known significant effects or critical hazards.                                                    |
| <b>Mutagenicity</b>          | : No known significant effects or critical hazards.                                                    |
| <b>Teratogenicity</b>        | : No known significant effects or critical hazards.                                                    |
| <b>Developmental effects</b> | : No known significant effects or critical hazards.                                                    |
| <b>Fertility effects</b>     | : No known significant effects or critical hazards.                                                    |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                | ATE value      |
|----------------------|----------------|
| Oral                 | 10451.45 mg/kg |
| Inhalation (vapours) | 87.65 mg/l     |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                               | Species                                        | Exposure |
|-------------------------|--------------------------------------|------------------------------------------------|----------|
| acetone                 | Acute EC50 20.565 mg/l Marine water  | Algae - <i>Ulva pertusa</i>                    | 96 hours |
|                         | Acute LC50 4.42589 ml/L Marine water | Crustaceans - <i>Acartia tonsa</i> - Copepodid | 48 hours |
|                         | Acute LC50 10 mg/l Fresh water       | Daphnia - <i>Daphnia magna</i>                 | 48 hours |
|                         | Acute LC50 5600 ppm Fresh water      | Fish - <i>Poecilia reticulata</i>              | 96 hours |
|                         | Chronic NOEC 4.95 mg/l Marine water  | Algae - <i>Ulva pertusa</i>                    | 96 hours |
|                         | Chronic NOEC 0.016 ml/L Fresh water  | Crustaceans - <i>Daphniidae</i>                | 21 days  |
|                         | Chronic NOEC 0.1 ml/L Fresh water    | Daphnia - <i>Daphnia magna</i> - Neonate       | 21 days  |
| tert-butyl acetate      | Chronic NOEC 0.1 mg/l Marine water   | Fish - <i>Fundulus heteroclitus</i>            | 4 weeks  |
| 1-methoxy-2-propanol    | Acute LC50 327 mg/l Fresh water      | Fish - <i>Pimephales promelas</i>              | 96 hours |
|                         | Acute LC50 >21100 mg/l               | Daphnia                                        | 48 hours |
|                         | Acute LC50 ≥1000 mg/l                | Fish                                           | 96 hours |
| butan-1-ol              | Acute EC50 1983 mg/l Fresh water     | Daphnia - <i>Daphnia magna</i>                 | 48 hours |
| Kaolin                  | Acute LC50 1730 mg/l Fresh water     | Fish - <i>Pimephales promelas</i>              | 96 hours |
|                         | Acute EC50 >100 mg/l                 | Algae                                          | 72 hours |
|                         | Acute LC50 >1100 mg/l                | Daphnia                                        | 48 hours |
|                         | Acute LC50 >100 mg/l                 | Fish                                           | 96 hours |

### Persistence and degradability

| Product/ingredient name | Test                                             | Result                     | Dose | Inoculum |
|-------------------------|--------------------------------------------------|----------------------------|------|----------|
| acetone                 | OECD Ready Biodegradability - CO2 Evolution Test | 90.9 % - Readily - 28 days | -    | -        |
| 1-methoxy-2-propanol    | OECD 301E                                        | 96 % - 28 days             | -    | -        |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| acetone                 | -                 | -          | Readily          |
| 1-methoxy-2-propanol    | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name     | LogP <sub>ow</sub> | BCF   | Potential |
|-----------------------------|--------------------|-------|-----------|
| dimethyl ether              | 0.07               | -     | Low       |
| acetone                     | -0.23              | -     | Low       |
| tert-butyl acetate          | 1.64               | -     | Low       |
| 1-methoxy-2-propanol        | <1                 | -     | Low       |
| butan-1-ol                  | 1                  | -     | Low       |
| trizinc bis(orthophosphate) | -                  | 60960 | High      |

### Mobility in soil

**Soil/water partition coefficient** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

|                                   | ADG                                                                                       | IMDG                                                                                                                                                                         | IATA                                                                                        |
|-----------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>UN number</b>                  | UN1950                                                                                    | UN1950                                                                                                                                                                       | UN1950                                                                                      |
| <b>UN proper shipping name</b>    | AEROSOLS                                                                                  | AEROSOLS                                                                                                                                                                     | Aerosols, flammable                                                                         |
| <b>Transport hazard class(es)</b> | 2.1<br> | 2.1<br>  | 2.1<br> |
| <b>Packing group</b>              | -                                                                                         | -                                                                                                                                                                            | -                                                                                           |
| <b>Environmental hazards</b>      | Yes. The environmentally hazardous substance mark is not required.                        | Yes.                                                                                                                                                                         | Yes. The environmentally hazardous substance mark is not required.                          |

### Additional information

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Hazchem code** : Not available.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## Section 15. Regulatory information

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

## Section 16. Any other relevant information

### History

**Date of issue** : 13 May 2025

**Key to abbreviations** :

- ACGIH = Association Advancing Occupational and Environmental Health
- ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- DFG = Deutsche Forschungsgemeinschaft, German research funding organization
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MAK value = Maximum Permissible Concentration
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- STEL = Short-Term Exposure Limit
- TLV = Threshold Limit Value
- TWA = Time-Weighted Average

▀ Indicates information that has changed from previously issued version.

### Notice to reader

This product is intended for industrial use only.

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