

### **1. IDENTIFICATION**

| Product Name        | Aluminium Chloride                         |
|---------------------|--|
| Other Names         | Aluminium trichloride                      |
| Uses                | Process regulator; Intermediate; Catalyst. |
| Chemical Family     | No Data Available                          |
| Chemical Formula    | AICI3                                      |
| Chemical Name       | Aluminum chloride, anhydrous               |
| Product Description | No Data Available                          |

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

| Organisation            | Location   | Telephone       |
|-------------------------|--|-----------------|
| Redox Ltd               | 2 Swettenham Road<br>Minto NSW 2566<br>Australia   | +61-2-97333000  |
| Redox Ltd               | 11 Mayo Road<br>Wiri Auckland 2104<br>New Zealand  | +64-9-2506222   |
| Redox Inc.              | 3960 Paramount Boulevard<br>Suite 107<br>Lakewood CA 90712<br>USA  | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7<br>Seksyen 33, Shah Alam Premier Industrial Park<br>40400 Shah Alam<br>Sengalor, Malaysia | +60-3-5614-2111 |

### **Emergency Contact Details**

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

| Organisation               | Location     | Telephone                                  |
|----------------------------|--------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525<br>131126                      |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

#### 2. HAZARD IDENTIFICATION

#### **Poisons Schedule (Aust)**

Not Scheduled

Redox Ltd

Corporate Office Sydney Locked Bag 15 Minto NSW 2566 Australia 2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

Form 21047, Revision 3, Page 1 of 11, 01-Feb-2024 02:03:33

Phone +61 2 9733 3000 +61 2 9733 3111 Fax E-mail sydney@redox.com Web www.redox.com ABN 92 000 762 345

Australia New Zealand Adelaide Auckland Christchurch Brisbane Melbourne Hawke's Bay Perth UK London Sydney

Malaysia Kuala Lumpur USA Los Angeles Oakland Mexico Saltillo



| Globally Harmonised Syste | em         |  |  |  |
|---------------------------|------------|--|--|--|
| Hazard Classification     |            | Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of<br>Chemicals (GHS)  |  |  |
| Hazard Categories         |            | Skin Corrosion/Irritatior  | n - Category 1B  |  |
|                           |            | Serious Eye Damage/Irr   | itation - Category 1   |  |
| Pictograms                |            | The second secon |  |  |
| Signal Word               |            | Danger   |  |  |
| Hazard Statements         |            | H314   | Causes severe skin burns and eye damage.   |  |
|                           |            | AUH014   | Reacts violently with water  |  |
|                           |            | AUH071   | Corrosive to the respiratory tract   |  |
| Precautionary Statements  | Prevention | P260   | Do not breathe dusts or mists.   |  |
|                           |            | P280   | Wear protective gloves/protective clothing/eye protection/face protection.   |  |
|                           | Response   | P303 + P361 + P353   | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |  |
|                           |            | P310   | Immediately call a POISON CENTER or doctor.  |  |
|                           |            | P305 + P351 + P338   | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |
|                           |            | P301 + P330 + P331   | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |  |
|                           |            | P363   | Wash contaminated clothing before reuse.   |  |
|                           |            | P304 + P340  | IF INHALED: Remove victim to fresh air and keep comfortable for breathing.   |  |
|                           | Storage    | P405   | Store locked up.   |  |
|                           | Disposal   | P501   | Dispose of contents/container in accordance with local / regional / national / international regulations.                        |  |

### **National Transport Commission (Australia)**

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

 Dangerous Goods Classification
 Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by

 Road & Rail (ADG Code)
 Road & Rail (ADG Code)

### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

| <b>HSNO</b> Classifications | Health Hazards 8.1A | Substances that are corrosive to metals                |  |
|-----------------------------|---------------------|--|--|
|                             | 8.2B                | Substances that are corrosive to dermal tissue UN PGII |  |
|                             | 8.3A                | Substances that are corrosive to ocular tissue         |  |

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

### Ingredients

| Chemical Entity               | Formula | CAS Number | Proportion |
|-------------------------------|---------|------------|------------|
| Aluminium chloride, anhydrous | AICI3   | 7446-70-0  | >=99 %     |

### 4. FIRST AID MEASURES

| Description of necessary measures            | s according to routes of exposure  |
|--|--|
| Swallowed                                    | IF SWALLOWED: Rinse mouth, then drink 1 or 2 glasses of water. Do NOT induce vomiting. Do not attempt to neutralise!<br>Immediately call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.  |
| Еуе  | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a Poison Centre or doctor/physician/ophthalmologist for advice. Can cause corneal burns - Urgently seek medical assistance!   |
| Skin   | IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately flush skin and hair with running water for at least 15 minutes. For minor skin contact, avoid spreading material on unaffected skin. Immediately call a Poison Centre or doctor/physician for advice. Wash contaminated clothing and shoes before reuse.<br>*For skin burns, cover with a clean, dry dressing until medical help is available.   |
| Inhaled                                      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. |
| Advice to Doctor                             | Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.<br>Show this material safety data sheet (SDS) to the doctor in attendance.<br>*Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.   |
| Medical Conditions Aggravated by<br>Exposure | Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.  |

| 5. FIRE FIGHTING MEASURES           |  |
|-------------------------------------|--|
| <b>A</b> 111                        |  |
| General Measures                    | Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out. Do not get water inside containers!   |
| Flammability Conditions             | Non-combustible; Material does not burn, but may produce toxic and/or corrosive fumes on heating.  |
| Extinguishing Media                 | If material is involved in a fire, use dry chemical or Carbon dioxide (CO2) for extinction. When material is not involved in fire, do not use water on material itself.  |
|                                     | *Large Fire: Flood fire area with large quantities of water, while knocking down vapours with water fog. If insufficient water supply: knock down vapours only.  |
| Fire and Explosion Hazard           | Risk of violent reaction or explosion! Substance will react with water, releasing corrosive and/or toxic gases and runoff.<br>Flammable/toxic gases may accumulate in confined areas. Contact with metals may evolve flammable hydrogen gas.<br>Containers may explode when heated or if contaminated with water.                                    |
|                                     | *Reaction with water may generate much heat that will increase the concentration of fumes in the air.  |
| Hazardous Products of<br>Combustion | Fire will produce irritating, corrosive and/or toxic gases, including Hydrogen chloride, Aluminium oxide.  |
| Special Fire Fighting Instructions  | Contain runoff from fire control or dilution water - Runoff may cause pollution.   |
| Personal Protective Equipment       | Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing - It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. |
| Flash Point                         | No Data Available  |
| Lower Explosion Limit               | No Data Available  |
| Upper Explosion Limit               | No Data Available  |
| Auto Ignition Temperature           | No Data Available  |
| Hazchem Code                        | 4W   |

### **6. ACCIDENTAL RELEASE MEASURES**

| General Response Procedure              | Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid dust formation. Do not breathe dusts or vapours and prevent contact with eyes, skin and clothing.  |
|---|--|
| Clean Up Procedures                     | Use clean, non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal (see SECTION 8).<br>*Do not get water inside containers!   |
| Containment                             | Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimise spreading or contact with rain.<br>*Use water spray to reduce vapours; do not put water directly on leak, spill area or inside container.   |
| Decontamination                         | Do NOT flush to drains or waterways. Neutralisation of the product is required before discharging.   |
| Environmental Precautionary<br>Measures | Spillages and decontamination runoff should be prevented from entering drains and watercourses. If environmental contamination has occurred, advise local emergency services.  |
| Evacuation Criteria                     | Spill or leak area should be isolated immediately. Evacuate the danger area. Keep unauthorised personnel away. Keep<br>upwind and to higher ground.<br>*Large spill: Immediately contact Police or Fire Brigade; Consider downwind evacuation.   |
| Personal Precautionary Measures         | Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (see SECTION 8).<br>Fully encapsulating, vapour-protective clothing should be worn for spills and leaks with no fire.<br>*Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill<br>situations where direct contact with the substance is possible. |

### 7. HANDLING AND STORAGE

| Handling  | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust and aerosols. Do not breathe dusts/mist/aerosols and prevent contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). Handle and open container with care. Containers should be carefully vented before being opened.<br>*NEVER pour water into this substance; when dissolving or diluting always add it slowly to the water. |
|-----------|--|
| Storage   | Store in a cool, dry and well-ventilated place, out of direct sunlight and without drain or sewer access. Keep container tightly closed - Check regularly for spills. WATER REACTIVE: Keep dry - Protect from moisture. Keep away from food/feedstuffs and incompatible materials (see SECTION 10). Store locked up.   |
| Container | Keep in the original container.  |

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| General                  | No specific exposure standards are available for Aluminium chloride. For Aluminium, soluble salts (as Al):<br>- Safe Work Australia Exposure Standard: TWA = 2 mg/m3.<br>- New Zealand Workplace Exposure Standard [Next review 2022]: TWA = 5 mg/m3.<br>DECOMPOSITION PRODUCT: Hydrogen chloride (HCI):<br>- Safe Work Australia Exposure Standard: TWA = 5 ppm (7.5 mg/m3) Peak limitation.<br>- New Zealand Workplace Exposure Standard [Next review 2023]: Ceiling = 5 ppm (7.5 mg/m3). |
|--------------------------|---|
| Exposure Limits          | No Data Available   |
| <b>Biological Limits</b> | No information available.   |
| Engineering Measures     | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.  |

| Personal Protection Equipment | <ul> <li>Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists.</li> <li>Recommended: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator, type ABEK-P3 respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards (refer to AS/NZS 1715 &amp; 1716).</li> <li>Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.</li> <li>Hand protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Acid-resistant protective clothing.</li> </ul> |
|-------------------------------|--|
| Special Hazards Precaustions  | Reacts violently and exothermically with water/moist air to form Hydrochloric acid - Reaction with water may generate heat which will increase the concentration of fumes in the air. Vapours may accumulate in confined areas.  |
| Work Hygienic Practices       | Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of the work day. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.  |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State                   | Solid   |
|----------------------------------|---|
| Appearance                       | Powder or granule   |
| Odour                            | Sharp, acidic, pungent  |
| Colour                           | White to grey or yellowish  |
| рН                               | 2.4 (100 g/l)   |
| Vapour Pressure                  | <1 mbar (@ 20 °C)   |
| <b>Relative Vapour Density</b>   | No Data Available   |
| Boiling Point                    | No Data Available   |
| Melting Point                    | 190 °C  |
| Freezing Point                   | No Data Available   |
| Solubility                       | WATER REACTIVE - 450 g/l in water 20°C                              |
| Specific Gravity                 | 2.44  |
| Flash Point                      | No Data Available   |
| Auto Ignition Temp               | No Data Available   |
| Evaporation Rate                 | No Data Available   |
| Bulk Density                     | 1,200 kg/m3   |
| Corrosion Rate                   | No Data Available   |
| <b>Decomposition Temperature</b> | No Data Available   |
| Density                          | 2.44 g/cm3 [Literature data]  |
| Specific Heat                    | No Data Available   |
| Molecular Weight                 | 133.34 g/mol  |
| Net Propellant Weight            | No Data Available   |
| <b>Octanol Water Coefficient</b> | No Data Available   |
| Particle Size                    | No Data Available   |
| Partition Coefficient            | No Data Available   |
| Saturated Vapour Concentration   | No Data Available   |
| Vapour Temperature               | No Data Available   |
| Viscosity                        | No Data Available   |
| Volatile Percent                 | No Data Available   |
| VOC Volume                       | No Data Available   |
| Additional Characteristics       | Sublimation temperature: 181.2 °C (1,013.25 hPa) [Literature data]. |
| Potential for Dust Explosion     | No information available.   |
|                                  |   |

| Fast or Intensely Burning<br>Characteristics                         | Risk of violent reaction or explosion!   |
|--|--|
| Flame Propagation or Burning<br>Rate of Solid Materials              | No information available.  |
| Non-Flammables That Could<br>Contribute Unusual Hazards to a<br>Fire | Will react violently with water/hydrous extinguishing agents, releasing flammable, toxic and/or corrosive gases.                             |
| Properties That May Initiate or<br>Contribute to Fire Intensity      | Non-combustible; Material does not burn, but may produce toxic and/or corrosive fumes on heating.  |
| Reactions That Release Gases or<br>Vapours                           | Heating or contamination will produce flammable, toxic and/or corrosive gases, including Hydrogen chloride, Aluminium oxides.                |
| Release of Invisible Flammable<br>Vapours and Gases                  | If contaminated with moisture, acid will be formed that may react with the (steel) drum resulting in formation of<br>flammable hydrogen gas. |

### **10. STABILITY AND REACTIVITY**

| General Information                 | WATER REACTIVE: Reacts violently with water, releasing toxic and corrosive hydrogen chloride, with sufficient heat and pressure generated to rupture containers.   |
|-------------------------------------|--|
| Chemical Stability                  | Stable if kept dry and protected from atmospheric moisture.<br>*May decompose on prolonged storage creating a build-up of pressure (possibly due to slow absorption of moisture).<br>Prolonged storage in closed containers has resulted in apparently spontaneous decomposition and occasionally<br>explosion upon opening. |
| Conditions to Avoid                 | Avoid dust formation. Protect from water and (atmospheric) moisture/humidity.  |
| Materials to Avoid                  | Incompatible/reactive with water, alkenes, alcohols, alkali metals, alkaline earth metals, ethylene oxide, halogen oxides, oxidising agents, organic nitro compounds, phenols, bases. Corrodes metals in the presence of moisture.   |
| Hazardous Decomposition<br>Products | Heating or contamination may produce flammable, toxic and/or corrosive gases, including Hydrogen chloride (HCI),<br>Aluminium oxides.  |
| Hazardous Polymerisation            | No information available.  |

### **11. TOXICOLOGICAL INFORMATION**

| General Information | - Acute toxicity: Low acute oral toxicity. Corrosive on ingestion! May cause abdominal pain, burning sensation, chemical   |
|---------------------|--|
|                     | burns to the gastrointestinal tract, shock or collapse.  |
|                     | - Skin corrosion/irritation: Corrosive! May cause severe skin burns and eye damage.  |
|                     | - Eye damage/irritation: Corrosive! Causes serious eye damage. May cause deep (corneal) burns and permanent eye<br>damage.   |
|                     | - Respiratory/skin sensitisation: No evidence of skin sensitisation. Skin sensitising effects were not observed in animal  |
|                     | studies. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.   |
|                     | - Germ cell mutagenicity: Not considered as genotoxic/mutagenic.   |
|                     | - Carcinogenicity: Not considered as carcinogenic.   |
|                     | - Reproductive toxicity: Fetotoxic and embryotoxic effects have been observed in animal studies. Causes developmental  |
|                     | effects in animals at high, maternally toxic doses.  |
|                     | - STOT (single exposure): Corrosive to the respiratory tract. May cause burning sensation, cough, laboured breathing, shortness of breath, sore throat.  |
|                     | <ul> <li>STOT (repeated exposure): The substance may cause damage to the central nervous system after repeated ingestion of<br/>high doses. The substance may cause damage to the lungs after repeated inhalation. Numerous studies have found<br/>impaired lung function in a variety of aluminium workers. Other observed effects include occupational asthma and</li> </ul> |
|                     | pulmonary fibrosis (human studies); neurotoxicity and neurodevelopmental toxicity (animal studies).<br>- Aspiration toxicity: No information available.  |
| Acute               |  |
| Ingestion           | Acute toxicity (Oral):   |
| -                   | - LD50, Rat: 3,450 (male) - 3,470 mg/kg (female) [Supplier's SDS].   |

None

### **12. ECOLOGICAL INFORMATION**

| Ecotoxicity                      | Aquatic toxicity:<br>- LC50, Fish (Oncorhynchus mykiss): 36.6 mg/l (96 h) [Supplier's SDS].<br>- EC50, Crustacea (Daphnia magna): 7.4 mg/l (48 h) (static) [Literature data; Supplier's SDS].<br>- EC50, Crustacea (Daphnia magna): 27.3 mg/l (48 h) (static) [Literature data; Supplier's SDS].<br>- EC50, Algae/aquatic plants (Selenastrum capricornutum): 2.8 mg/l (96 h) (static) [Literature data; Supplier's SDS].<br>- NOEC, Fish (Oncorhynchus mykiss): 0.25 mg/l (45 d) [Literature data; Supplier's SDS].<br>Microorganisms/Effect on activated sludge:<br>- EC10: >1,000 mg/l (180 min.) (aerobic) [OECD Guideline 209; Supplier's SDS]. |
|----------------------------------|--|
| Persistence/Degradability        | Biodegradation testing is not applicable; Inorganic substance.<br>*Aluminium chloride decomposes rapidly to hydrogen chloride and/or hydrochloric acid gas and aluminium hydroxide in<br>aqueous environments.   |
| Mobility                         | No information available.  |
| Environmental Fate               | Acutely toxic for aquatic organisms, effects depends on the pH-value. Avoid release to the environment.  |
| <b>Bioaccumulation Potential</b> | Accumulation in organisms is not expected.   |
| Environmental Impact             | No Data Available  |

### **13. DISPOSAL CONSIDERATIONS**

**General Information** Dispose of contents/container as hazardous (reactive) waste and in accordance with local/regional/national regulations. Special Precautions for Land Fill No information available.

#### **14. TRANSPORT INFORMATION**

| <b>Land Transport (Australia)</b><br>ADG Code |   |
|---|---|
| Proper Shipping Name                          | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                            | No Data Available   |
| EPG   | 40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive |
| UN Number                                     | 1726  |
| Hazchem                                       | 4W  |
| Pack Group                                    | II  |
| Special Provision                             | No Data Available   |
| Land Transport (India)                        |   |
| Proper Shipping Name                          | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                            | No Data Available   |

| EPG   | 40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive |
|---|---|
| UN Number   | 1726  |
| Hazchem   | 4W  |
| Pack Group  | П   |
| Special Provision                                   | No Data Available   |
|   |   |
| <b>Land Transport (Malaysia)</b><br>ADR Code        |   |
| Proper Shipping Name                                | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                                  | No Data Available   |
| EPG   | 40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive |
| UN Number   | 1726  |
| Hazchem   | 4W  |
| Pack Group  | II  |
| Special Provision                                   | No Data Available   |
| Land Transport (New Zealand)<br>NZS5433             |   |
| Proper Shipping Name                                | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                                  | No Data Available   |
| EPG   | 40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive |
| UN Number   | 1726  |
| Hazchem   | 4W  |
| Pack Group  | II  |
| Special Provision                                   | No Data Available   |
| Land Transport (United States of America)<br>US DOT |   |
| Proper Shipping Name                                | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                                  | No Data Available   |
| ERG   | 137 Substances - Water-Reactive - Corrosive                           |
| UN Number   | 1726  |
| Hazchem   | 4W  |
| Pack Group  | II  |
| Special Provision                                   | No Data Available   |
| Sea Transport<br>IMDG Code                          |   |
| Proper Shipping Name                                | ALUMINIUM CHLORIDE, ANHYDROUS   |
| Class   | 8 Corrosive Substances  |
| Subsidiary Risk(s)                                  | No Data Available   |
| UN Number   | 1726  |
| Hazchem   | 4W  |
| Pack Group  | II  |
| Special Provision                                   | No Data Available   |
|   |   |

| EMS                  | F-A, S-B                      |
|----------------------|-------------------------------|
| Marine Pollutant     | No                            |
| Air Transport        |                               |
| IATA DGR             |                               |
| Proper Shipping Name | ALUMINIUM CHLORIDE, ANHYDROUS |
| Class                | 8 Corrosive Substances        |
| Subsidiary Risk(s)   | No Data Available             |
| UN Number            | 1726                          |
| Hazchem              | 4W                            |
| Pack Group           | II                            |
| Special Provision    | No Data Available             |
|                      |                               |

### **National Transport Commission (Australia)**

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

**Dangerous Goods Classification** 

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

#### **15. REGULATORY INFORMATION**

| General Information     | No Data Available |
|-------------------------|-------------------|
| Poisons Schedule (Aust) | Not Scheduled     |

### **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

| Approval Code | HSR002491           |
|---------------|---------------------|
|               | HSR003954 (Revoked) |

### **National/Regional Inventories**

| Australia (AIIC)        | Listed         |
|-------------------------|----------------|
| Canada (DSL)            | Not Determined |
| Canada (NDSL)           | Not Determined |
| China (IECSC)           | Not Determined |
| Europe (EINECS)         | 231-208-1      |
| Europe (REACh)          | Not Determined |
| Japan (ENCS/METI)       | Not Determined |
| Korea (KECI)            | Not Determined |
| Malaysia (EHS Register) | Not Determined |
| New Zealand (NZIoC)     | Listed         |

| Philippines (PICCS)                               | Not Determined |
|---|----------------|
| Switzerland (Giftliste 1)                         | Not Determined |
| Switzerland (Inventory of Notified<br>Substances) | Not Determined |
| Taiwan (NCSR)                                     | Not Determined |
| USA (TSCA)  | Not Determined |

### **16. OTHER INFORMATION**

| Related Product Codes | ALUCHL1000, ALUCHL1001, ALUCHL1002, ALUCHL1003, ALUCHL1004, ALUCHL1005, ALUCHL1006, ALUCHL1007,<br>ALUCHL2000, ALUCHL3000, ALUCHL4000, ALUCHL4001, ALUCHL4002, ALUCHL4100, ALUCHL5000, ALUCHL5100,<br>ALUCHL5200, ALUCHL5205, ALUCHL5206, ALUCHL5250, ALUCHL9900   |
|-----------------------|--|
| Revision              | 5  |
| <b>Revision Date</b>  | 06 Sep 2022  |
| Reason for Issue      | Updated SDS  |
| Key/Legend            | <ul> <li>Less Than</li> <li>Greater Than</li> <li>AICS Australian Inventory of Chemical Substances</li> <li>atm Atmosphere</li> <li>CAS Chemical Abstracts Service (Registry Number)</li> <li>cm<sup>2</sup> Square Centimetres</li> <li>COD Chemical Oxygen Demand</li> <li>deg C (7) Degress Celcius</li> <li>EPA (New Zealand) Environmental Protection Authority of New Zealand</li> <li>deg F (7) Degress Celcius</li> <li>g Grams</li> <li>g (7cm<sup>3</sup></li> <li>g Grams per Cubic Centimetre</li> <li>g/I Grams per Cubic Centimetre</li> <li>g/I Grams per Litre</li> <li>HSNO Hazardous Substance and New Organism</li> <li>IDLH Immediately Dangerous to Life and Health</li> <li>immiscible Liquids are insoluable in each other.</li> <li>inHg Inch of Mercury</li> <li>inH20 Inch of Water</li> <li>K Kelvin</li> <li>kg Keliogram</li> <li>kg/m<sup>4</sup> Kilograms per Cubic Metre</li> <li>b Pound</li> <li>LCSD LC stands for Lethal Dose. LDSO is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</li> <li>LDSO LD stands for Lethal Dose. LDSO is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</li> <li>LDSO LD stands for Lethal Dose. LDSO is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</li> <li>LDSO LD stands for Lethal Dose. LDSO is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</li> <li>LDSO LD stands for Lethal Dose. LDSO is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.</li> <li>m or Cubic Metre</li> <li>mar/AM Hilligrams per Z4 Hours</li> <li>mg/Kg</li></ul> |

NOHSC National Occupational Heath and Safety Commission **OECD** Organisation for Economic Co-operation and Development Oz Ounce PEL Permissible Exposure Limit Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours ppm/6h Parts per Million per 6 Hours psi Pounds per Square Inch **R** Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne **TWA** Time Weighted Average ug/24H Micrograms per 24 Hours **UN** United Nations wt Weight