

# Material Safety Data Sheet

Aluminium chlorohydrate (RXSOL-19-3756-270)



## 1. Product and Company Identification

Product Name Aluminium chlorohydrate

Part Number RXSOL-19-3756-270

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / information on ingredients

| Chemical Name           | Cas No     | Weight |
|-------------------------|------------|--------|
| Aluminium chlorohydrate | 12042-91-0 | 50%    |
| Water                   | 7732-18-5  | 50%    |

## 3. Hazards Identification

|                                            |                                                                                                                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal Word                                | Warning                                                                                                                                                                    |
| Hazard Statements                          | Causes skin irritation.Causes serious eye irritation.                                                                                                                      |
| Precautionary statements                   | Wash face,hands and any exposed skin thoroughly after handling.wear protective gloves/protective clothing/eye protection/ skin protection.keep only in original container. |
| Classification of the substance or mixture | No data available                                                                                                                                                          |
| Supplemental Hazard Statements             | No data available                                                                                                                                                          |
| Other hazards                              | May be harmful in contact with skin.                                                                                                                                       |

## 4. First Aid Measures

|                                                            |                                                                                                                                                                                                                                          |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                             | No data available                                                                                                                                                                                                                        |
| If inhaled                                                 | No data available                                                                                                                                                                                                                        |
| Eye Contact                                                | Immediately flush with plenty of water for at least 20 minutes,holding eyelids apart to ensure flushing of the entire surface.washing within one minute is essential to achieve maximum effectiveness. seek immediate medical attention. |
| Swallowed                                                  | Make victim drink water (two glasses at most). Consult doctor if feeling unwell.                                                                                                                                                         |
| Skin Contact                                               | Immediately wash thoroughly with soap and water,remove contaminated clothing and footwear.wash clothing before reuse get medical attention if irritation should develop.                                                                 |
| Inhalation                                                 | Remove to fresh air.                                                                                                                                                                                                                     |
| Ingestion                                                  | Seek medical attention immediately.give large amount of water to drink.if vomiting should occur spontaneously,keep airway clear.Never give anything by mouth to an unconscious person.                                                   |
| Most important symptoms and effects, both acute and delaye | Possible eye skin and respiratory tract irritation. may aggravate existing skin,eye and lung conditions.person with kidney disorders have an increased risk from exposure based on general information found on aluminium salts.         |

|                                                                            |                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indication of any immediate medical attention and special treatment needed | Aluminium sodium salt may cause gastroenteritis if ingested. treatment includes the use of demulcents. consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5. Fire-fighting Measures

|                                                       |                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flammability                                          | No data available                                                                                                                                                                                                                                              |
| Suitable extinguishing media                          | Water spray, Carbon dioxide, Dry chemical, Foam                                                                                                                                                                                                                |
| Unsuitable extinguishing media                        | No data available                                                                                                                                                                                                                                              |
| Special hazards arising from the substance or mixture | May produce hazardous fumes or hazardous decomposition products.                                                                                                                                                                                               |
| Further information                                   | No data available                                                                                                                                                                                                                                              |
| Hazardous combustion products                         | No data available                                                                                                                                                                                                                                              |
| Advice for firefighters                               | Product is water soluble and nonflammable. in a fire, this product may build up pressure and rupture a sealed container; cool and exposed container with water spray. use self-contained breathing apparatus in confined areas; avoid breathing mist or spray. |
| Protective Equipment                                  | No data available                                                                                                                                                                                                                                              |
| Specific Hazards Arising from the Chemical            | No data available                                                                                                                                                                                                                                              |

## 6. Accidental Release Measures

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | No data available                                                                                                                                                                                                                                                                                                                                                                                    |
| Spillage                                                            | No data available                                                                                                                                                                                                                                                                                                                                                                                    |
| Personal Protection                                                 | Wear suitable protective cloth and gloves.                                                                                                                                                                                                                                                                                                                                                           |
| Environmental Precaution                                            | Do not permit run-off to get into sewers or waterways.                                                                                                                                                                                                                                                                                                                                               |
| Methods and materials for containment and cleaning                  | Prevent further leakage or spillage if safe to do so. dike to collect large liquid spills. Clear spills immediately. contain large spill and remove using a vacuum truck. soak up small spill with inert adsorbent material and place in a labeled waste container for disposal. ventilate area of leak or spill. spills of solution are extremely slippery so all residue must be removed properly. |
| Reference to other sections                                         | For disposal see section 13                                                                                                                                                                                                                                                                                                                                                                          |

## 7. Handling and Storage

|                         |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Incompatible materials  | Oxidizing agents.                                                                                                                                                                                                                                                                                                                                                          |
| Advice on safe handling | Keep container closed when not in use. keep away from open flame and heat. avoid contact with skin, eyes and clothing. wash thoroughly after handling. wear chemical splash goggles, gloves and protective clothing when handling. avoid breathing mists and vapours. use with adequate ventilation and employ respiratory protection where mist or vapours are generated. |
| Storage conditions      | Do not store in unlined metal containers. product may slowly corrode iron, brass, copper, aluminium, mild steel, and stainless steel. keep in tightly closed container.<br>Handle in accordance with good industrial hygiene and safety practices.                                                                                                                         |

## 8. Exposure controls and personal protection

|                     |                                                                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure controls   | Personal protective equipment                                                                                                                                                                                                                                                                                                                             |
| Engineering Control | Local exhaust ventilation as necessary to maintain exposures to within applicable limits. please refer to the ACGIH document, "industrial ventilation, a manual of recommended practices", most recent edition for details. if there are no applicable or established exposure limit requirement or guidelines, general ventilation should be sufficient. |
| Eye/face protection | Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material)                                                                                                                                                                                                                             |
| Hand protection     | Protective clothing. Appropriate chemical resistant gloves should be worn                                                                                                                                                                                                                                                                                 |

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin protection          | Standard work clothing and work shoes                                                                                                                   |
| Respiratory protection   | If exposure exceeds the PEL or TLV use NIOSH/MSHA approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134 |
| Other Protection Measure | Eyewash fountains and safety showers must be easily accessible                                                                                          |

## 9. Physical and chemical properties

|                                              |                     |
|----------------------------------------------|---------------------|
| Physical state                               | Liquid              |
| Colour                                       | Colorless to Yellow |
| Odour                                        | No data available   |
| Odor Threshold                               | No data available   |
| pH                                           | 3.5                 |
| Melting Point                                | -7°C /19°F          |
| Boiling Point                                | 40 °C at 1.013 hPa  |
| Flash Point                                  | Does not flash      |
| Evaporation Rate                             | No data available   |
| Flammability (solid, gas)                    | No data available   |
| Explosive limits                             | No data available   |
| Upper/lower flammability or explosive limits | No data available   |
| Autoignition temperature                     | No data available   |
| Decomposition temperature                    | No data available   |
| Vapour pressure                              | No data available   |
| Viscosity                                    | No data available   |
| Density                                      | 11.0-11.3 lb/gal    |
| Relative Density                             | No data available   |
| Specific Gravity                             | 1.33-1.35           |
| Partition coefficient                        | No data available   |
| Explosive properties                         | No data available   |
| Solubility                                   | No data available   |
| Ignition temperature                         | No data available   |
| Particle characteristics                     | No data available   |

## 10. Stability and reactivity

|                                    |                                                                                               |
|------------------------------------|-----------------------------------------------------------------------------------------------|
| Reactivity                         | Vapors may form explosive mixture with air.                                                   |
| Chemical stability                 | Stable                                                                                        |
| Possibility of hazardous reactions | No data available                                                                             |
| Condition to avoid                 | Oxidising agent                                                                               |
| Incompatible materials             | No data available                                                                             |
| Hazardous product decomposition    | Thermal decomposition may release toxic and hazardous gaseous such as CO <sub>2</sub> and HCl |

## 11. Toxicological information

|                                   |                                                                              |
|-----------------------------------|------------------------------------------------------------------------------|
| Acute toxicity                    | Aluminium chlorohydrate 12042-91-0 50% Oral 9187 mg/kg(rat) >2000 mg/kg(rat) |
| Skin corrosion/irritation         | Irritating to skin                                                           |
| Serious eye damage/irritation     | Causes serious eye irritation                                                |
| Respiratory or skin sensitization | No data available                                                            |
| Carcinogenicity                   | No data available                                                            |
| Reproductive toxicity             | No data available                                                            |

|                                                |                   |
|------------------------------------------------|-------------------|
| Specific target organ toxicity-single exposure | No data available |
| Additional Information                         | No data available |

## 12. Ecological information

|                                                     |                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability                       | Biodegradability aerobic - Exposure time 28 d Result: 68 % - Readily biodegradable. (OECD Test Guideline 301D)                                                                                                                                                           |
| Toxicity to fish                                    | Flow-through test LC50 - Pimephales promelas (fathead minnow) - 193,00 mg/l - 96 h (ECHA)                                                                                                                                                                                |
| Toxicity to daphnia and other aquatic invertebrates | Static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h (US-EPA)                                                                                                                                                                                                  |
| Toxicity                                            | No data available                                                                                                                                                                                                                                                        |
| Toxicity to bacteria                                | Static test EC50 - activated sludge - 2.590 mg/l - 40 min (OECD Test Guideline 209)                                                                                                                                                                                      |
| Toxicity to algae                                   | No data available                                                                                                                                                                                                                                                        |
| Bioaccumulation potential                           | Bioaccumulation Cyprinus carpio (Carp) - 6 Weeks - 250 µg/l(Dichloromethane) Bioconcentration factor (BCF) 2 - 5,4 (OECD Test Guideline 305) Cyprinus carpio (Carp) - 6 Weeks - 25 µg/l(Dichloromethane) Bioconcentration factor (BCF): 6 - 40 (OECD Test Guideline 305) |
| Mobility in soil                                    | No data available                                                                                                                                                                                                                                                        |
| Results of PBT and PVB assessment                   | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                                       |
| Endocrine disrupting properties                     | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.              |
| Other adverse effects                               | No data available                                                                                                                                                                                                                                                        |

## 13. Disposal considerations

|                        |                   |
|------------------------|-------------------|
| Product                | No data available |
| Contaminated packaging | No data available |
| Waste treatment Method | No data available |

## 14. Transport information

|                              |                             |                          |                       |
|------------------------------|-----------------------------|--------------------------|-----------------------|
| UN number                    | ADR/RID:1593                | IMDG:1593                | IATA:1593             |
| UN proper shipping name      | ADR/RID:DICHLOROMETHANE     | IMDG:DICHLOROMETHANE     | IATA: DICHLOROMETHANE |
| Transport hazard class       | ADR/RID: 6.1                | IMDG:6.1                 | IATA:6.1              |
| Packaging group              | ADR/RID:III                 | MDG:III                  | IATA:III              |
| Environmental hazards        | ADR/RID:No                  | IMDG Marine pollutant:No | IATA: No              |
| Special precautions for user | Tunnel restriction code (E) |                          |                       |
| Further information          | No data available           |                          |                       |

## 15. Regulatory information

|                                                                                                |                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006                                                                                                                |
| Other regulations                                                                              | Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work |
| Chemical Safety Assessment                                                                     | For this product a chemical safety assessment has been carried out                                                                                                                                             |

## 16. Other information

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Other  
Information

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