

1. Product and Company Identification

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Product Name Aluminium chlorohydrate
Part Number RXSOL-19-3756-270

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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

3. Hazards Identification

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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

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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

Most important symptoms and effects, both acute and delaye

anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed

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.

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

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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

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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 placed 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

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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 berathing mists and vapours.use with adequate ventilation and employe respiratory protection where mist or vapours are generated.

Storage conditions

Do not store in unlined metal containers.produt may slowly corride iron,brass,copper,aluminium,mild steel,and stainless steel.keep in tightly closed container.

Handle in accordance with good industrial hygiene and safety practices.

8. Exposure controls and personal protection

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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

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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

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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

11. Toxicological informationwww.rxmarine.com

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 informationwww.rxmarine.com

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 av 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 considerationswww.rxmarine.com

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

14. Transport informationwww.rxmarine.com

UN number	ADR/RID:1593 IMDG:1593 IATA:1593
UN proper shipping name	ADR/RID:DICHLOROMETHANE IMDG:DICHLOROMETHANE IATA: DICHLOROMETHANE

Transport hazard classes	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

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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	<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.</p>
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