

1. Product and Company Identification

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Product Name Aluminum Chlorohydrate solution 50 %
Part Number RXSOL-60-6600-060

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Product name	Cas No	EC No	Weight	Formula
Aluminum Chlorohydrate solution	1242-91-0	-	50%	AlCl ₃ H ₂ O

3. Hazards Identification

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Signal Word	Warning
Hazard Statements	Causes skin irritaiton.causes serious eye irritation.may be corrosive to metals
Precautionary statements	Wash face, hand and any exposed skin throughly after handling.wear protective gloves protective clothing/eye protection/skin protection/face 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	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled	After inhalationfresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Eye Contact	Immediatly flush with plenty of water at least 20 minutes,holding eyelids apart to ensure flushing of entire surface.Washing within one minute is essential to acheive maximum effectiveness.seek immidiate medical attention.
Swallowed	If swallowed give water to drink (two gasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

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 unconscious person.
Most important symptoms and effects, both acute and delayed	Possible eye, skin and respiratory tract irritation. May aggravate existing skin, eye and lung conditions. person with kidney disorders have increased risk from exposure based on general information found on aluminium salts.
Indication of any immediate medical attention and special treatment needed	Aluminium soluble salts may cause gastroenteritis if ingested. treatment include 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 Foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	No data available
Special hazards arising from the substance or mixture	May produce hazardous fumes or hazardous decomposition product.
Further information	No data available
Hazardous combustion products	No data available
Advice for firefighters	Product is water soluble and non-flammable. In fire this product may build up pressure and rupture sealed container. cool 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	Wear suitable protective clothing and gloves.
Spillage	No data available
Personal Protection	No data available
Environmental Precaution	Do not permit run-off to get into sewers or surface waterways
Methods and materials for containment and cleaning	Prevent further spillage and leakage if safe to do so. dike collect large liquid spills. clear spill immediately. contain large spill and remove using a vacuum truck. soak up small spills with inert absorbent material and placed in labeled waste container for disposal. ventilate area of leaks and spills. spill of solution are extremely slippery so all residue must be removed promptly.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	Oxidizing agent
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
Advice on safe handling	Keep container closed when not in use. keep away from open heat and flame. avoid contact with eye, skin and clothing. wash thoroughly after

Conditions for safe storage including any incompatibilities	handling.wear chemical splash goggles,gloves and protective clothing when handling.avoid breathing vapoures and mist.use with adequate ventilation and employ respiratory protection where mist or vapours may be generated.
Storage conditions	No data available
Storage class	Do not store in unlined metal containers.product may slowly corride iron, brass, copper,aluminium, mild steel,and stainless steel. store in a cool dry place away from direct heat. keep in tightly closed container.
Specific end use(s)	No data available
Advice on general occupational hygiene	No data available

8. Exposure controls and personal protection

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Exposure controls	Personal protective equipment
Engineering Control	Local exhaust ventilation as necessary to maintain exposure to within applicable limit.Please refer to the ACGIH documet," 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
Body Protection	Protective clothing.
Skin protection	Appropriate chemical resistant gloves should worn.standerd work clothing and shoes.
Respiratory protection	If exposure excced the PEL or TLV, use NIOSHA/MSHA approved respirator in accordance with OSHA Respiratory protection in accordance with OSHA
Other Protection Measure	Eyewash founntains 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	No data available
Flash Point	No data available
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	Soluble
Ignition temperature	No data available

Particle characteristics	No data available
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10. Stability and reactivity

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Reactivity	No data available
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Oxidizing agent
Hazardous decomposition products	Thermal decomposition may release toxic and hazardous gaseous such as Cl ₂ , HCl

11. Toxicological information

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Acute toxicity	Aluminium chlorohydrate Oral LD50 9187 mg/kg Dermal LD50 >2000 mg/kg
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
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
Other information	No data available

12. Ecological information

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Persistence and degradability	No data available
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity	No data available
Toxicity to bacteria	No data available
Toxicity to algae	No data available
Bioaccumulation potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Other adverse effects	No data available

13. Disposal considerations

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Disposal Waste	Do not mix with other chemical waste. do not put solution containing this product into sewer systems. dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable federal, state and local regulations. do not reuse with empty containers.
Contaminated packaging	Since empty container retain product residue, follow label warnings even after container is emptied
Waste treatment Method	No data available

14. Transport information

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UN number	ADR/RID:3264	IMDG:3264	IATA:3264
UN proper shipping name	ADR/RID:Aluminum Chlorohydrate solution	IMDG:Aluminum Chlorohydrate solution	IATA:Aluminum Chlorohydrate solution
Transport hazard class(es)	ADR/RID:8	IMDG:8	IATA:8
Packaging group	ADR/RID:III	IMDG:III	IATA:III
Environmental hazards	ADR/RID:No	IMDG:No	IATA:No
Special precautions for user	No data available		
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	Take note of Dir 94/33/EC on the protection of young people at work
Chemical Safety Assessment	A Chemical Safety Assessment was not carried out for this substance.

16. Other information

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Other Information

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