Material Safety Data Sheet

Aluminium Chloro Hydrate Liquid (RXSOL-60-6550-002)

1. Product and Company Identifaction

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

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
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2. Composition / informationon 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 throughly 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	Immediatly 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 acheive maximum effectiveness. seek immidiate medical attention.
Swallowed	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Skin Contact	Immediately wash throughly 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 immidiately.give large amount of water to drink.if vomating should occur spontaneously,keep airway clear.Never give anything by mouth to an unconsious person.
Most important symptoms and effects, both acute and delaye	Possible eye skin and respiratory tract irritation. may aggravate exsting 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 gastroentertis if ingected.treatement includes the use of demulecents. consideration should be given to the possiblity that overexposure to materials other than this product may have occured.

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 hazardus 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.
Enviromental Precaution	Do not permmit run-off to get into sewers or waterways.
Methods and materials for containment and cleaning	Prevent futher leakge or spillage if safe to do so.dike to collect large liquid spills.Clear spills immideatly.contain large spill and remove using a vaccum trunk.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

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 throughly after handling.wear chemical splash googles,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 hygeine 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 applicalbe limits.please refer to the ACGIH document," industrial ventillation,a manual of reccomended 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 spashing or spraying of material)
Hand protection	Protective clothing. Appropriate chemical resistant gloves should be worn

Skin protection	Standerd 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 accesable

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
Possibilityof hazardous reactions	No data available
Condition to avoid	Oxidising agent
Incompatible materials	No data available
Hazardous product dicomposition	Thermal decomposition may release toxic and hazardus gaseous such as CO2 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 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 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 classess	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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