Material Safety Data Sheet

Aluminium Hydroxide Chloride, solution (RXSOL-60-6404-025)

1. Product and Company Identifaction

Product Name	Aluminium Hydroxide Chloride, solution
Product Type	**RXSOL-60-6404-025**

Company Details:
RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

Hazardous Ingredients	CAS-No	Content	R-phrases	Classification
Aluminium *Hydroxide* *Chloride, solution*	1327-41-9	24±1,5%	R36	Xi
Other ingredients *Water*	7732-18-5	76±1,5%		

3. Hazards Identification

Hazard effects:	The product is irritating to eyes and degreasing to skin.
Environmental effects:	See ”Ecological Information” heading no 12.
Other effects:	Contact with non-precious metals (eg aluminium, iron, zinc and their alloys) generates hydrogen gas, which can forman explosive mixture with air.

4. First Aid Measures

Inhalation:	Remove patient to fresh air upon irritation or breathing difficulty.
Skin contact:	Wash with soap and water, use skin cream if necessary.Remove all contaminated clothing which should be aundered before reuse

Eye contact:	Rinse with plenty of water. Seek medical attention.
Ingestion:	Rinse with plenty of water. Seek medical attention.

5. Fire-fighting Measures

Extinguishing Media:	Governed by other material present.
Unsuitable Ext. Media:	None known.
Special Protective quipment:	Self-contained breathing apparatus should be worn when ighting fires.
Special Exposure Hazards:	Hydrochloric acid fumes may be emitted during thermal ecomposition.

6. Accidental Release Measures

Large Spillage:	Contain and adsorb with sand, earth or another suitableinert material. Prevent the product from reaching sewageand water courses. Adjust to pH 6-10 (with care as reaction is exothermic) using sodium carbonate, calcium xide or calcium carbonate.
Small spillage:	Wash away with plenty of water if acceptable to local authorities.
Personal Protection:	Goggles and rubber/PVC gloves. Full working clothes ccommended. Eye wash station needed.

7. Handling and Storage

Handling:	Normal handling precautions applicable to industrial chemicals.
Storage:	Store the product in the original package or in a container/tank of polythene, glass fibre reinforced polyester (FRP) or PVC-lined.
Material to Avoid:	Avoid most metals, especially the non-precious variety.

8. Exposure controls and personal protection

Respiration:	Not applicable under normal conditions of use. However, ood ventilation should be provided in working areas. Do ot inhale the vapour.
Skin Contact:	Use rubber/PVC gloves. Full working clothesrecommended.
Eye Contact:	Goggles and eyewash station.
Air contamination limits:	DE-MAK: No information, GB-OES/TWA: 2 mg/m3 as Al(soluble salts), US-TLV/TWA: 2 mg/m3 as Al (solublesalts).

9. Physical and chemical properties

Form and colour	Clear yellowish liquid
Odour	Slight odour
Boiling point:	Boiling point 108° C
pH	1,5 ± 0,3 (see Other Information")
Melting point/Freezing point	Freezing point -75° C
Viscosity	10 mPa•s (20° C)
Flash point	None
Autoinflammability	None
Vapour pressure	No information
Density	1245 ± 25 kg/m3
Bulk density	Not applicable
Solubility	Completely soluble in water, anyhow flocculation of Aluminium Hydroxide chloride are likely to occur.
Partition coefficient octanol/water log Pow	Not applicable
Explosion properties-upper and lower limits	None
Other information	Jowa 54 cannot be analysed by conventionalmethods because of its special composition and highion strength. Specialised methods have to be used.When pH is calculated it will thus be 3,7±0,3

10. Stability and reactivity

Hazardous Decomposition:	None
Conditions to Avoid:	None known
Materials to Avoid:	Non-precious metals such as aluminium, iron, zinc andtheir alloys.
Hazardous Reactions:	Contact with non-precious metals can produce hydrogengas which together with air can give an explosive mixture

11. Toxicological information

Acute toxicity	No data found.
Irritation data	
Skin contact:	Non-irritating (rabbit, OECD 404). May cause flushing of sensitive skin and pain in wounds. Has also a drying effect on skin.
Eye contact:	Irritant due to experiences from people handling the product. Gives transient redness and pain.
Sensitisation data:	No information
Long term effects:	No information
Addition information:	No information

12. Ecological information

Biodegradability:	Not relevant for an inorganic product such as this. This product mineralises immediately under normal conditions and is therefore considered to be readily degradable.
Aquatic Toxicity:	FISH Lepomis macrochirus LC50 (96 h): pH=3,0-3,5.* At pH= 4,8-5,6 Aluminium appears in a chemical form which is very toxic for fish (suffocation).
Other Information:	The pH decrease is responsible for the environmental effect on fish, plankton and stationary organisms. At pH= 3,0 the mucous membrane of the gills will coagulate (suffocation). pH= 4,0 causes irritation of the gills. If not neutralised, this product can be toxic for aquatic organisms.
WGK:	1.

13. Disposal considerations

Product Disposal:	Neutralised product should be transferred to a suitable container for further treatment. Obtain advice form local authorities.
Packaging Disposal:	As for product.

14. Transport information

Summary:	Classified as dangerous for transport.
Classified as dangerous for transport.	1760, Pack. group: III
ADR/RID (Road/Rail):	Class: 8, Item: 66 (c)

IMDG (Sea):	Class: 8, Ems No: 8-15, MFAG No: 760
IATA/ICAO (Air)	Class:8

15. Regulatory information

EEC Classification:	Classified as irritant under Council Directive 88/379/EEC.
R-Phrases:	R36 Irritating to eyes
S-Phrases:	S 25 Avoid contact with eyes. S 26 In case of contact with eyes, rinse with plenty of water and seek medical attention. S37/39 Use suitable protective gloves and eye/face protection. Neutralise the product before discharge into drains or the aquatic environment

16. Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to respiratory system; R41: Risk of serious damage to eyes. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer