

Product Name	Potassium Alum
Part Number	RXSOL-91-6027-025

Company Details:....

RX MARINE INTERNATIONAL  
105, A wing , BSEL , TECH PARK.  
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400 Fax +91 22 27612100 ::AOH :0091 9821214367 Email [mail@rxmarine.com](mailto:mail@rxmarine.com)  
Website [www.rxmarine.com](http://www.rxmarine.com)

## Substances

Formula	AlK(SO <sub>4</sub> ) <sub>2</sub> · 12H <sub>2</sub> O	Molecular weight	474,39 g/mol	CAS-No	7784-24-9
EC-No.	233-141-3				

No components need to be disclosed according to the applicable regulations.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Label elements Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 Other hazards 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.

## Description of first aid measures

<b>If inhaled</b>	After inhalation: fresh air.	<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower
		<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Remove contact lenses.
<b>If swallowed</b>	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.		
<b>Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11		
<b>Indication of any immediate medical attention and special treatment needed</b>	No		

data available

Extinguishing media

Suitable extinguishing media		Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media		For this substance/mixture no limitations of extinguishing agents are given.		
Special hazards arising from the substance or mixture		Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.		
In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.		Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.		
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Not combustible. Fire may cause evolution of: vapours.		Sulfur oxides Ambient fire may liberate hazardous		
Advice for firefighters				

In the event of fire, wear self-contained breathing apparatus.

Further information		Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.	
Persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.		spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all	
Move containers from fire area if this can be done without risk. Use water		spray to keep fire-exposed containers cool.	

Personal precautions, protective equipment and emergency procedures		Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.	
Environmental precautions		Do not let product enter drains. Methods and materials for containment and cleaning up	
Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.		Cover drains.	
Reference to other sections		For disposal see section 13.	

	Precautions for safe handling	For precautions see section 2.2.	Conditions for safe storage, including any incompatibilities
	Recommended storage temperature	see product label.	Tightly closed. Recommended storage temperature see product label.
	Storage conditions	Tightly closed. Dry.	Recommended storage temperature see product label. Specific end
use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated		

Control parameters

Ingredients with workplace control parameters		Exposure controls	Personal protective equipment	Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety				

glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact

Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Respiratory protection Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure Do not let product enter drains..

Information on basic physical and chemical properties

Appearance	Form: solid	Color: colorless	Odor	No data available	Odor Threshold	No data
available	pH	3,3 at 94,88 g/l	Melting point/freezing point	Melting point/range: 92 °C	Initial boiling point and boiling	
range	No data available	Flammability (solid, gas)	The product is not flammable.	Upper/lower flammability or explosive		
limits	No data available	Flash point	No data available	Autoignition temperature	No data available	
Decomposition temperature	No data available	materials.	Extremely flammable in the presence of the following materials or			
conditions: oxidizing	materials.	pH				
No data available						
Viscosity	Viscosity, kinematic: No data available	Viscosity, dynamic: No data available	Water solubility	No		
data available	Partition coefficient: n-octanol/water	No data available	Vapor pressure	No data available	Density	
No data available	Relative density	No data available	Relative vapor density	No data available	Particle	
characteristics	No data available	Explosive properties	No data available	Oxidizing properties	None	Other
safety information	Bulk density	ca.900 kg/m3				

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	
information available	Incompatible materials	Strong acids	Hazardous decomposition products	In the event	
of fire: see section 5					

Information on toxicological effects

Acute toxicity	No data available	Skin corrosion/irritation	No data available	Serious eye damage/eye	
irritation	No data available	Respiratory or skin sensitization	No data available	Germ cell mutagenicity	No data
available	Carcinogenicity	No data available	Reproductive toxicity	No data available	Specific target organ
toxicity - single exposure	No data available	Specific target organ toxicity - repeated exposure	No data available	Aspiration	
hazard	No data available	Additional Information	Not available	Gastrointestinal disturbance, To the best of our knowledge,	

the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity	No data available	Persistence and degradability	No data available	Bioaccumulative potential	No
data available	Mobility in soil	No data available	Results of PBT and vPvB 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.	
Other adverse effects		No data available			

Waste treatment methods	Product	See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
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UN number	ADR/RID:	IMDG:	IATA:	UN proper shipping name	ADR/RID: Not dangerous goods		
IMDG: Not dangerous goods	IATA: Not dangerous goods	Transport hazard class(es)		ADR/RID:	IMDG:		
IATA:	Packaging group	ADR/RID:	IMDG:	IATA:	Environmental hazards	ADR/RID: no	IMDG Marine
pollutant: no	IATA: no	Special precautions for user	No data available	Further information	Not classified as dangerous in the meaning of transport regulations.		

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 was not carried out	

Other Information

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.

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