

**Product Name:** Potassium Alum  
**Date of Issue:** September 24, 2026

**Part No / SKU:** RXSOL-91-6027-025  
**Document Type:** Material Safety Data Sheet (MSDS)

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|              |                   |
|--------------|-------------------|
| 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

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|---------|----------------------------------------------------------|
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| Website | <a href="http://www.rxmraine.com">www.rxmraine.com</a>   |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

### 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.

## 3. HAZARDS IDENTIFICATION

|                                            |                                                                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

## 4. FIRST AID MEASURES

### 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                                                                                                   |

## 5. FIRE FIGHTING MEASURES

### Extinguishing media

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Unsuitable extinguishing media</b>                        | For this substance/mixture no limitations of extinguishing agents are given.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Special hazards arising from the substance or mixture</b> | <p>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.</p> <p>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.</p> <p>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.</p> <p>Sulfur oxides<br/>Potassium oxides<br/>Aluminum oxide<br/>Not combustible.<br/>Fire may cause evolution of:<br/>Sulfur oxides<br/>Ambient fire may liberate hazardous vapours.</p> |
| <b>Advice for firefighters</b>                               | In the event of fire, wear self-contained breathing apparatus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Further information</b>                                   | <p>Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.</p> <p>spray to keep fire-exposed containers cool.Promptly isolate the scene by removing all persons from the vicinity of the incident if</p> <p>there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                        |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.<br>For personal protection see section 8.                    |
| Environmental precautions                                           | Do not let product enter drains.                                                                                                                                                                       |
| Methods and materials for containment and cleaning up               | Cover drains. 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. |
| Reference to other sections                                         | For disposal see section 13.                                                                                                                                                                           |

## 7. HANDLING AND STORAGE

|                                                              |                                                                                                                         |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 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.<br>Recommended storage temperature see product label. |
| Storage conditions                                           | Tightly closed. Dry.<br>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                                      |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 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                   | <p>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: <a href="http://www.kcl.de">www.kcl.de</a>).</p> <p>Full contact<br/>Material: Nitrile rubber<br/>Minimum layer thickness: 0,11 mm<br/>Break through time: 480 min<br/>Material tested:KCL 741 Dermatril® L</p> <p>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: <a href="http://www.kcl.de">www.kcl.de</a>).</p> <p>Splash contact<br/>Material: Nitrile rubber<br/>Minimum layer thickness: 0,11 mm<br/>Break through time: 480 min<br/>Material tested:KCL 741 Dermatril® L</p> |
| Respiratory protection            | <p>Required when dusts are generated.</p> <p>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.</p> <p>Recommended Filter type: Filter type P1</p> <p>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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control of environmental exposure | Do not let product enter drains..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                              |                                                                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                                   | Form: solid<br>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<br>materials. Extremely flammable in the presence of the following materials or conditions: oxidizing materials. |
| pH                                           | No data available                                                                                                                  |
| Viscosity                                    | Viscosity, kinematic: No data available<br>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                                                                                                                               |
| <b>Other safety information</b>              |                                                                                                                                    |
| Bulk density                                 | ca.900 kg/m3                                                                                                                       |

## 10. STABILITY AND REACTIVITY

|                                           |                                                                                       |
|-------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | No data available                                                                     |
| <b>Chemical stability</b>                 | The product is chemically stable under standard ambient conditions (room temperature) |
| <b>Possibility of hazardous reactions</b> | No data available                                                                     |
| <b>Conditions to avoid</b>                | No information available                                                              |
| <b>Incompatible materials</b>             | Strong acids                                                                          |
| <b>Hazardous decomposition products</b>   | In the event of fire: see section 5                                                   |

## 11. TOXICOLOGICAL INFORMATION

### 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<br>Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. |

## 12. ECOLOGICAL INFORMATION

|                                    |                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                  |

## 13. DISPOSAL CONSIDERATIONS

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

## 14. TRANSPORT INFORMATION

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| UN number                    | ADR/RID:                      IMDG:                      IATA:                           |
| UN proper shipping name      | ADR/RID: Not dangerous goods<br>IMDG: Not dangerous goods<br>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.                     |

## 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 was not carried out                                                                                                                                               |

## 16. OTHER INFORMATION AND DISCLAIMER

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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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