SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier
Product Description: Aluminium potassium sulfate dodecahydrate
Cat No. 217480000; 217480010; 217485000
Synonyms: Alum; Potassium alum dodecahydrate

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use: Laboratory chemicals
Uses advised against: No Information available

Details of the supplier of the safety data sheet
Company
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
E-mail address: begel.sdsdesk@thermofisher.com

Emergency Telephone Number
For information in the US, call: 001-800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number, US: 001-201-796-7100
CHEMTREC Phone Number, US: 001-800-424-9300
CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008
Acute oral toxicity Category 4
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16
Symbol(s) Xn - Harmful
R-phrase(s) R22 - Harmful if swallowed
Risk Combination Phrases R36/38 - Irritating to eyes and skin
SECTION 2. HAZARDS IDENTIFICATION

Label Elements

Signal Word Warning

Hazard Statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H302 - Harmful if swallowed

Precautionary Statements - EU (§28, 1272/2008)
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other Hazards
No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES
SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Ingestion
Clean mouth with water. Get medical attention.

Inhalation
Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Notes to Physician
Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation

Environmental precautions
Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes. Avoid breathing vapors or mists. Do not ingest.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

**Specific End Uses**

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**Exposure controls**

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**

- **Eye Protection**
  - Goggles

- **Hand Protection**
  - Protective gloves

- **Skin and body protection**
  - Wear appropriate protective gloves and clothing to prevent skin exposure

- **Respiratory Protection**
  - Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**

Solid

**Appearance**

White

**odor**

odorless

**pH**

3.0-3.5 10% aq.solution

**Vapor Pressure**

No information available.

**Vapor Density**

No information available.

**Boiling Point/Range**

25°C / 77°F

**Melting Point/Range**

92°C / 197.6°F

**Decomposition temperature**

> 200°C

**Flash Point**

No information available.

**Autoignition Temperature**

No information available.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Water Solubility 140 g/L (20°C)
Specific Gravity 1.757
Molecular Formula Al K O8 S2 . 12 H2 O
Molecular Weight 474.39

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions No information available.

Conditions to Avoid
Incompatible products.

Incompatible Materials
Strong oxidizing agents, Metals, copper.

Hazardous Decomposition Products

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.
**Mutagenic Effects**  
No information available  

**Reproductive Effects**  
No information available.  

**Developmental Effects**  
No information available.  

**Target Organs**  
No information available.  

**Other Adverse Effects**  
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information  

**Endocrine Disruptor Information**  
None known  

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### SECTION 12. ECOLOGICAL INFORMATION

**Toxicity**

**Ecotoxicity effects**

Do not empty into drains  

**Persistence and degradability**

No information available  

**Bioaccumulative potential**

No information available.  

**Mobility in soil**

No information available.  

**Results of PBT and vPvB assessment**

**Other adverse effects**

No information available  

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### SECTION 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations  

**Contaminated Packaging**

Empty containers should be taken to local recyclers for disposal  

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### SECTION 14. TRANSPORT INFORMATION

**IMDG/IMO**

Not regulated  

**ADR**

Not regulated
SECTION 14. TRANSPORT INFORMATION

IATA  Not regulated

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

<table>
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<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
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<td>X</td>
<td>X</td>
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</table>

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCAS - Japan Existing and New Chemical Substances
CHINA - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R22 - Harmful if swallowed
R36/38 - Irritating to eyes and skin

Revision Date 15-Dec-2011
Revision Summary  Not applicable
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
SECTION 16. OTHER INFORMATION

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet