**SECTION 1: Identification of the substance/mixture**

1.1. **Product identifier**

<table>
<thead>
<tr>
<th>Product form</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance name</td>
<td>Potassium Alum</td>
</tr>
<tr>
<td>Formula</td>
<td>KAl(SO$_4$)$_2$·12H$_2$O</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>474.39 g/mol</td>
</tr>
<tr>
<td>CAS No.</td>
<td>7784-24-9</td>
</tr>
<tr>
<td>Product code</td>
<td>LW-KAl(SO$_4$)$_2$·12H$_2$O</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Aluminum potassium sulfate dodecahydrate</td>
</tr>
</tbody>
</table>

1.2. **Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture: Laboratory chemicals, Manufacture of substances

1.3. **Emergency telephone number**

Emergency number: 1.800.424.9300 (USA)
+1.703.527.3887 (INT)

**SECTION 2: Hazards Identification**

2.1. **Classification of the substance or mixture**

Not a hazardous substance or mixture.

2.2. **GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

2.3. **Hazards not otherwise classified (HNOC) or not covered by GHS**

none

**SECTION 3: Composition/information on ingredients**

3.1. **Substances**

<table>
<thead>
<tr>
<th>Formula</th>
<th>KAl(SO$_4$)$_2$·12H$_2$O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
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<td>Molecular Weight</td>
<td>474.39 g/mol</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7784-24-9</td>
</tr>
</tbody>
</table>

**Hazardous components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Alum</td>
<td></td>
<td>&lt;= 100 %</td>
</tr>
</tbody>
</table>
SECTION 4: Description of first aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

First-aid measures after skin contact: Wash off with soap and plenty of water.

First-aid measures after eye contact: Flush eyes with water as a precaution.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Sulphur oxides, Potassium oxides, Aluminum oxide

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. More Information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

For personal protection see section 8.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3. Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Alum</td>
<td>7784-24-9</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>USA. NIOSH Recommended Exposure Limits</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls : General industrial hygiene practice.

8.3. Personal protective equipment
Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls : No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Form: powder
Color: white
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 (198 °F) - lit.
Initial boiling point and boiling range : No data available
Flash point : Not applicable
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Potassium Alum
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Vapor density: No data available
Relative density: 1.757 g/cm³ at 25 °C (77 °F)
Water solubility: No data available
Partition coefficient: n-octanol/water: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other safety information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
No data available

10.5. Incompatible materials
Strong oxidizing agents, Bases, Steel (all types and surface treatments), Aluminum, Copper, Zinc

10.6. Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: No data available
Inhalation: No data available
### Carcinogenicity

**IARC**
- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP**
- No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA**
- No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**
- Developmental Toxicity - Rat - Oral: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

**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**
- RTECS: WS5690000
- Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>12.1. Toxicity</th>
<th>: No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2. Persistence and degradability</td>
<td>: No data available</td>
</tr>
<tr>
<td>12.3. Bioaccumulative potential</td>
<td>: No data available</td>
</tr>
<tr>
<td>12.4. Mobility in soil</td>
<td>: No data available</td>
</tr>
<tr>
<td>12.5. Results of PBT and vPvB</td>
<td>: PBT/vPvB assessment not available as chemical safety</td>
</tr>
</tbody>
</table>
assessments

12.6. Other adverse effects

assessments not required/not conducted

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated Packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Potassium Alum

CAS-No. 7784-24-9

Revision Date

New Jersey Right To Know Components

Potassium Alum

CAS-No. 7784-24-9

Revision Date

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: Other information**

**HMIS Rating**
- Health Hazard : 0
- Chronic Health Hazard :
- Flammability : 0
- Physical Hazard : 0

**NFPA Rating**
- Health hazard : 0
- Fire Hazard : 0
- Reactivity Hazard : 0

**Further Information**
Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Issuer assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his/her application.