

# **SAFETY DATA SHEET**

Version 2

# 1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Aluminum Sulfate Liquid

**Recommended Use** Industrial, Manufacturing or Laboratory use.

**Company Name:** 

Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

**Emergency Telephone:** 

CHEMTREC (US): 1-800-424-9300

# 2. Hazards Identification

# **GHS - Classification**

| Skin corrosion/irritation         | Category 2 |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |



Signal Word: Warning

**Hazard Statements:** 

- Causes skin irritation
- · Causes serious eye irritation
- · May cause respiratory irritation

# **Physical Hazards**

Corrosive to metals Category 1

· May be corrosive to metals



**Precautionary Statements:** 

### 2116 Aluminum Sulfate Liquid

- Call a POISON CENTER or doctor if you feel unwell
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- · Immerse in cool water/wrap in wet bandages
- Absorb spillage to prevent material damage
- · Store in corrosive resistant aluminum container with a resistant inliner

# 3. Composition / Information on Ingredients

#### **Hazardous**

| Chemical Name    | CAS No     | Weight-% | EC No     |  |  |  |  |  |
|------------------|------------|----------|-----------|--|--|--|--|--|
| Aluminum sulfate | 10043-01-3 | 30-60    | 233-135-0 |  |  |  |  |  |
| Non-Hazardous    |            |          |           |  |  |  |  |  |
| Chemical Name    | CAS No     | Weight-% | EC No     |  |  |  |  |  |
| Water            | 7732-18-5  | 30-60    | 231-791-2 |  |  |  |  |  |

### 4. First Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists: Get medical advice/attention.

**Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation:** Move to fresh air. If symptoms persist, call a physician.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a

physician.

Note to Physicians: Treat symptomatically.

### 5. Fire-fighting Measures

### Flammable Properties:

Not considered to be a fire hazard

#### **Explosive Properties:**

Not considered to be an explosion hazard

### Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### **Unsuitable Extinguishing Media:**

No information available

### **Protective Equipment and Precautions for Firefighters:**

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

# 6. Accidental Release Measures

Personal Precautions: Use only with adequate ventilation.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

### 2116 Aluminum Sulfate Liquid

Methods for Cleaning Up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

Other Information: Not applicable.

7. Handling and Storage

Advice on Safe Handling: Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any

source of heat or ignition. Keep away from incompatible substances.

### 8. Exposure Controls / Personal Protection

### **Exposure Guidelines**

| Chemical Name |                  | ACGIH TLV      |         | OSHA PEL      |                                       | Ontario TWA              |        |                     |  |
|---------------|------------------|----------------|---------|---------------|---------------------------------------|--------------------------|--------|---------------------|--|
|               | Aluminum sulf    | ate            |         |               | (vacated) TWA: 2 mg/m <sup>3</sup> Al |                          | Al     |                     |  |
|               |                  |                |         |               |                                       | Aluminum                 |        |                     |  |
|               | Chemical Name    | European Unior | n China | Japan Korea A |                                       | Australia                | Taiwan |                     |  |
|               | Aluminum sulfate |                |         |               |                                       | TWA: 2 mg/m <sup>3</sup> |        | 2 mg/m <sup>3</sup> |  |

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

**Eye/Face Protection:** Tight sealing safety goggles. **Body Protection:** Suitable protective clothing.

**General Hygiene Considerations:** 

Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

**Physical State:** Liquid

Clear Odorless Appearance: Odor:

Color: No information available Odor Threshold: No information available

**Property** Values Remarks • Method No information available pH: 1.9 "Salt Out" Point (°F): No information available **Melting Point/Freezing Point:** -15.56 °C No information available **Boiling Point/Boiling Range:** 101 °C No information available No information available Flash Point: Evaporation Rate (BuAc=1): No information available Flammability (solid, gas): No information available Flammability Limits in Air: No information available

**Upper Flammability Limit:** 

**Lower Flammability Limit:** 

No information available Vapor Pressure (mm Hg): No information available Vapor density (Air =1)

1.335 No information available Specific Gravity (H2O=1): Specific Gravity (2nd value): No information available

No information available Water Solubility: Completely miscible No information available Solubility(ies): **Partition Coefficient** No information available (n-octanol/water)

No information available **Autoignition Temperature: Decomposition Temperature:** No information available **Kinematic Viscosity:** No information available **Dvnamic Viscosity:** No information available

**Oxidizing Properties:** No information available **Explosive Properties:** No information available

# 2116 Aluminum Sulfate Liquid

9.2. Other information

Softening Point:

Molecular Weight:

VOC Content(%):

Density:

Bulk Density:

No information available

# 10. Stability and Reactivity

Stability: Stable under normal conditions of use and storage

Conditions to Avoid: Heat, flames and sparks

Incompatible Materials: No information available

**Hazardous Decomposition** 

**Products:** 

None under normal use conditions

Possibility of Hazardous Reactions: None under normal processing

# 11. Toxicological Information

#### **Product Information**

| Chemical Name    | Oral LD50:       | Dermal LD50 : | LC50 (Lethal Concentration): |
|------------------|------------------|---------------|------------------------------|
| Aluminum sulfate | 1930 mg/kg (Rat) |               |                              |
| Water            | 90 mL/kg(Rat)    |               |                              |

**Chronic Toxicity:** 

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP

# 12. Ecological Information

# **Ecotoxicity**

|   | Chemical Name    | Toxicity to algae | Toxicity to fish                 | Toxicity to daphnia and other aquatic invertebrates |
|---|------------------|-------------------|----------------------------------|---|
| Ī | Aluminum sulfate |                   | 100: 96 h Carassius auratus mg/L | 136: 15 min Daphnia magna mg/L                      |
| 1 |                  |                   | LC50 37: 96 h Gambusia affinis   | EC50, 38.2: 48h Daphnia magna                       |
| 1 |                  |                   | mg/L LC50 static                 | mg/L LC50   |

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

13. Disposal Considerations

Waste from Residues/Unused Disposal should be in accordance with applicable regional, national and local laws and

**Products:** regulations

14. Transport Information

DOT

**Description** Not DOT Regulated

# 15. Regulatory Information

#### International Inventories

**AICS** Complies **TSCA** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** 

**IECSC** Complies **KECL** Complies **PICCS** Complies

| Chemical Name    | AICS   | TSCA   | DSL    | NDSL | EINECS | ELINCS | ENCS   | IECSC  | KECL     | PICCS   |
|------------------|--------|--------|--------|------|--------|--------|--------|--------|----------|---------|
| Aluminum sulfate | Listed | Listed | Listed | -    | Listed | -      | (1)-25 | Listed | KE-01042 | Present |
| Water            | Listed | Listed | Listed | -    | Listed | -      | -      | Listed | KE-35400 | Present |

#### **Inventory Legend**

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### **RESTRICTIONS - REACH TITLE VII** No information available

# **US Federal Regulations**

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name    | CERCLA Hazardous Substances and the Reportable Quantities | SARA Extremely Hazardous<br>Substances EPCRA RQ | SARA Extremely Hazardous Substances TPQ |
|------------------|---|---|---|
| Aluminum sulfate | 5000 lb<br>2270 kg  | -   | -                                       |

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard Yes Chronic health hazard No Fire hazard No Sudden release of pressure hazard No Reactive hazard No

## U.S. State Right-to-Know Regulations

## **California Proposition 65:**

This product does not contain any Proposition 65 chemicals

# 16. Other Information

# National Fire Protection Association (NFPA) Ratings

# **NSF/ANSI 60 Certification**



Maximum Use (mg/L unless

otherwise indicated):

150

**HSE** Department

Prepared By:

Issue Date: No data available

Revision Date: 21-Oct-2015

Revision Note: SDS sections updated 2

#### **Disclaimer:**

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

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**End of Safety Data Sheet**