Apex Sapphire Polymer-Coated Aluminum Sulfate
Powered by GAL-Xe ONE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 11/30/2021 Supersedes: 11/30/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Apex Sapphire Polymer-Coated Aluminum Sulfate Powered by GAL-Xe ONE
Product code : M74438

1.2. Recommended use and restrictions on use

Recommended use : Fertilizer

1.3. Supplier

JR Simplot Company
P.O. Box 70013
Boise, ID 83707
T: 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H318 - Causes serious eye damage.
Precautionary statements (GHS US) : 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. P310 - Immediately call a poison center/doctor/…

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium sulfate, octadecahydrate</td>
<td>(CAS-No.) 7784-31-8</td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Proprietary</td>
<td>(CAS-No.) Not Applicable</td>
<td></td>
<td>Not classified</td>
</tr>
</tbody>
</table>
SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact: Immediately call a POISON CENTER/doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/effects after eye contact: Causes serious eye damage. Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment.

- Hygiene measures: Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions: Keep only in the original container in a cool, well ventilated place away from heat, strong bases, strong acids. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.


- Incompatible materials: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Apex Sapphire Polymer-Coated Aluminum Sulfate Powered by GAL-Xe ONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proprietary* (Not Applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>aluminium sulfate, octadecahydrate (7784-31-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

- Appropriate engineering controls: Ensure good ventilation of the work station.

- Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

- Personal protective equipment:
  - Avoid all unnecessary exposure.
  - Hand protection: Wear protective gloves.
  - Eye protection: Chemical goggles or safety glasses. Safety glasses
  - Skin and body protection: Wear suitable protective clothing
  - Respiratory protection: Wear appropriate mask

- Other information:
  - Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Solid
- Appearance: Granules.
- Colour: Turquoise Blue
- Odour: No data available on odour
- Odour threshold: No data available
Apex Sapphire Polymer-Coated Aluminum Sulfate Powered by GAL-Xe ONE  
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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>117 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non flammable.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>slowly soluble. Polymer coating insoluble.</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Pow)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information  
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity  
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability  
Stable.

10.3. Possibility of hazardous reactions  
Not established.

10.4. Conditions to avoid  
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials  
Strong acids. Strong bases.

10.6. Hazardous decomposition products  

SECTION 11: Toxicological information

11.1. Information on toxicological effects  
Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium sulfate, octadecahydrate (7784-31-8)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 9000 mg/kg (Rat; Literature study)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

11/30/2021 EN (English)  4/7
### Reproductive toxicity
- Not classified

### STOT-single exposure
- Not classified

### STOT-repeated exposure
- Not classified

### Aspiration hazard
- Not classified

### Viscosity, kinematic
- No data available

### Potential adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.

### Symptoms/effects after eye contact
- Causes serious eye damage. Serious damage to eyes.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Ecological information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apex Sapphire Polymer-Coated Aluminum Sulfate Powered by GAL-Xe ONE</td>
<td>Not established.</td>
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<tr>
<td>Proprietary* (Not Applicable)</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium sulfate, octadecahydrate (7784-31-8)</td>
<td>Biodegradability: not applicable. Hydrolysis in water. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Not established.</td>
</tr>
<tr>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
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<tbody>
<tr>
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<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium sulfate, octadecahydrate (7784-31-8)</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>76 – 190 (60 days; Salmo salar; Anhydrous form)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

- Avoid unintentional release to the environment.
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### SECTION 13: Disposal considerations

**13.1. Disposal methods**

- **Waste treatment methods**: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
- **Product/Packaging disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations.
- **Ecology - waste materials**: Avoid unintentional release to the environment.

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### SECTION 14: Transport information

- **Department of Transportation (DOT)**
  - In accordance with DOT
  - Other information: No supplementary information available.

- **Transportation of Dangerous Goods**
  - Transport by sea
  - Air transport

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### SECTION 15: Regulatory information

**15.1. US Federal regulations**

- **Apex Sapphire Polymer-Coated Aluminum Sulfate Powered by GAL-Xe ONE**
  - All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:
    - Proprietary*
    - aluminium sulfate, octadecahydrate

<table>
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<th>CAS-No.</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium sulfate, octadecahydrate</td>
<td>CAS-No. 7784-31-8</td>
<td></td>
</tr>
</tbody>
</table>

**15.2. International regulations**

- **CANADA**
  - Proprietary* (Not Applicable)
  - Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)
  - aluminium sulfate, octadecahydrate (7784-31-8)
    - Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

- **EU-Regulations**
  - No additional information available

- **National regulations**
  - No additional information available

**15.3. US State regulations**

- California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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### SECTION 16: Other information

**Data sources**


- Other information: None.

- Full text of H-statements:
  - H318 Causes serious eye damage.

SDS US (GHS HazCom 2012)
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