Ammonium Sulfates Fines
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier
Product form: Substance
Substance name: Ammonium Sulfates Fines
Product code: M11080

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

1.3. Details of the supplier of the safety data sheet
J.R. Simplot Company
Boise, ID 83707
T 1-208-336-2110

1.4. Emergency telephone number
Emergency number: CHEMTREC 1-800-424-9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
Eye Irrit. 2B H320
STOT SE 3 H335
Full text of H-phrases: see section 16

2.2. Label elements
GHS-US labeling
Hazard pictograms (GHS-US):

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
H320 - Causes eye irritation
H335 - May cause respiratory irritation
Precautionary statements (GHS-US):
P281 - Avoid breathing dusts/fumes/gases/mists/vapors/spray
P264 - Wash ... thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P304+P340 - If exposed: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a poison center/doctor/... if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Name: Ammonium Sulfates Fines

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium sulfates</td>
<td>(CAS no) 7786-20-2</td>
<td>100</td>
<td>Eye Irrit. 2B, H320 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

05/20/2014
EN (English US)
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3.2. Mixture
Not applicable

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: Assure fresh air breathing. 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.
First-aid measures after eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/Injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures
5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting Instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Additional release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
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: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: 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 vapor.

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: Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.
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7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls
Personal protective equipment: Avoid all unnecessary exposure.
Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
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: White solid, Shiny, white plate crystals.
Color: White
Odor: Odorless
Odor threshold: No data available
pH: No data available
pH solution: 5.5 - 6 10g/90g w/w
Relative evaporation rate (butyl acetate=1) : No data available
Melting point: No data available
Freezing point: No data available
Boiling point: 235 °C
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): No data available
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Density: 1.067 - 1.165 kg/m³
Solubility: Soluble in water.
Water Solubility in water of component(s) of the mixture:
*: 77 g/100ml

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable.
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10.3. Possibility of hazardous reactions
Not established.

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

10.5. Incompatible materials
Oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products
fumes. Carbon monoxide. Carbon dioxide.

SECTION 7: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Ammonium Sulfates Fines</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>840 - 4250 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>040.00000000 mg/kg body weight</td>
</tr>
<tr>
<td>ammonium sulfate (7783-20-2)</td>
<td></td>
</tr>
<tr>
<td>LC50 oral rat</td>
<td>2840 mg/kg (rat)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>2840.00000000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified
Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<table>
<thead>
<tr>
<th>ammonium sulfate (7783-20-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>126 mg/l (96 h; Poecilia reticulata)</td>
</tr>
<tr>
<td>EG50 Daphnia 1</td>
<td>202 mg/l (96 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>250 - 480 mg/l (96 h; Brachydanio rerio)</td>
</tr>
<tr>
<td>LC50 Daphnia 2</td>
<td>433 mg/l (96 h; Daphnia magna)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>1290 ppm (96 h; Gambusia affinis)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Ammonium Sulfates Fines</th>
<th>Not established.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium sulfate (7783-20-2)</td>
<td>Biodegradability in water: no data available. Not established.</td>
</tr>
</tbody>
</table>
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12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th></th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Sulfates Fines</td>
<td>Not established.</td>
</tr>
<tr>
<td>ammonium sulfate (7783-20-2)</td>
<td>Log Pow: -5.1</td>
</tr>
<tr>
<td></td>
<td>Bioaccumulative potential: not applicable. Not established.</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Effect on ozone layer: No additional information available
Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

SECTION 13. Disposal Considerations

13.1. Waste treatment methods
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14. Transport Information

In accordance with DOT
Not regulated for transport
Additional information
Other Information: No supplementary information available.

ADR
Transport document description:

Transport by sea
No additional information available
Air transport
No additional information available

SECTION 15. Regulatory Information

15.1. US Federal regulations
No additional information available

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified
Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

15.2.2. National regulations
No additional information available

15.3. US State regulations
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SECTION 16. HEALTH INFORMATION


Other information: None.

Full text of H-phrases: see section 16:

- Eye Irrit 2A: Serious eye damage/eye irritation Category 2B
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- H320: Causes eye irritation
- H335: May cause respiratory irritation

SDS US (GHS HazCom 2012)

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For Additional information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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