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

Product Name: Magnesium Sulfate, Anhydrous
Product Code(s): 0338
Recommended Use: For Further Manufacturing Use Only
                     Not for Human or Animal Drug Use
Synonyms: Epsom Salts * Magnesium Sulphate * Sulfuric Acid Magnesium Salt (1:1)

Company
AMRESCO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number: Chemtrec 1-800-424-9300
Company Phone Number: 1-800-448-4442
E-mail Address: info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification: Skin Irritant 2 Eye Irritant 2
Signal Word: Warning

Hazard Statements: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary Statements: P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No.</th>
<th>REACH Reg. No.</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Sulfate Anhydrous</td>
<td>-</td>
<td>Not available</td>
<td>7487-88-9</td>
<td>95-100</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes

**Inhalation**
Move to fresh air. If breathing becomes difficult, give oxygen

**Ingestion**
Clean mouth with water and afterwards drink plenty of water

**Notes to Physician**
Treat symptomatically

5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Not flammable

**Flash Point**
Not determined

**Suitable Extinguishing Media**
Dry chemical, CO2, water spray or regular foam

**Hazardous Combustion Products**
Carbon oxides

**Explosion Data**
- Sensitivity to Mechanical Impact: Not sensitive
- Sensitivity to Static Discharge: Not sensitive

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation

**Methods for Containment**
Prevent further leakage or spillage if safe to do so

**Methods for Cleaning Up**
Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE
Handling

Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Hygroscopic.

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
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</thead>
<tbody>
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<td>Magnesium Sulfate Anhydrous</td>
<td>7487-88-9</td>
<td></td>
<td></td>
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</tbody>
</table>

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection
Tightly fitting safety goggles

Skin and Body Protection
Wear protective gloves/clothing

Respiratory Protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

White to off-white

Odor

No information available

Odor Threshold

No information available

Decomposition Temperature °C

No information available

Freezing Point

No information available

Initial Boiling Point

No information available

Physical State

Fine Powder

pH

No data available

Flash Point

Not determined

Autoignition Temperature

No data available

Boiling Point/Range

No data available

Melting Point/Range

No data available

Flammability Limits in Air

Upper No data available  Lower No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

Evaporation Rate

No data available

MMHG @ 37.8 C

No data available

Vapor Density

No data available

Specific Gravity

No data available

Solubility

No information available

Partition Coefficient

(n-octanol/water)

No data available

Viscosity

No information available

10. STABILITY AND REACTIVITY
11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information  May cause irritation to eyes, skin and respiratory system.

Chronic Toxicity

Chronic Toxicity  No known effect based on information supplied.

Target Organ Effects  Central nervous system (CNS), Gastrointestinal tract (GI).

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method  Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging  Dispose of in accordance with all federal, state and local regulations.
14. TRANSPORT INFORMATION

IATA Not regulated
DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Dangerous Substances</th>
<th>Organic Solvents</th>
<th>Harmful Substances Whose Names Are to be Indicated on the Label</th>
<th>Pollution Release and Transfer Registry (Class I):</th>
<th>Pollution Release and Transfer Registry (Class II):</th>
<th>Poison and Deleterious Substances Control Law:</th>
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</thead>
<tbody>
<tr>
<td>Magnesium Sulfate Anhydrous</td>
<td>Not applicable</td>
<td>Not applicable</td>
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<td>Not applicable</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying</th>
<th>ISHA - Harmful Substances Requiring Permission</th>
<th>Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals</th>
<th>Toxic Release Inventory (TRI) - Group I</th>
<th>Toxic Release Inventory (TRI) - Group II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Sulfate Anhydrous 7487-88-9 (95-100)</td>
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International Inventories

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<tr>
<th>Regulatory Code</th>
<th>Compliance Status</th>
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<tbody>
<tr>
<td>TSCA</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>ENCS</td>
<td>Does not Comply</td>
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<tr>
<td>KECL</td>
<td>Does not Comply</td>
</tr>
<tr>
<td>PICCS</td>
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</tr>
<tr>
<td>AICS</td>
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U.S. Federal Regulations

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
Magnesium Sulfate, Anhydrous

Acute Health Hazard  Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade
No information available.

Canada

WHMIS Hazard Class
D2B  Toxic materials

16. OTHER INFORMATION

Issuing Date  16-May-2011
Revision Date  16-May-2011
Revision Note
No information available.
Recommended Restrictions  No information available

Disclaimer
The information provided on this MSDS 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 MSDS