Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Ammonium Dihydrogen Phosphate, SUPRAPUR ®
Product Code: 1440
Manufacturer: EM Science
A Division of EM Industries
P.O. Box 70
480 Democrat Road
Gibbstown, N.J. 08027
Effective Date: 10/29/2001

For More Information Call
856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM
800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym: AMMONIUM DIHYDROGEN PHOSPHATE
Material Uses: Analytical reagent.
Chemical Family: Inorganic salt.

Section 2. Composition and Information on Ingredients

Component: AMMONIUM PHOSPHATE, MONOBASIC
CAS #: 7722-76-1
% by Weight: 100

Section 3. Hazards Identification

Physical State and Appearance: Solid. (Crystals solid. Granular solid.)
Emergency Overview: CAUTION!
Handling care generally in keeping with safe laboratory practices is recommended.
Routes of Entry: Inhalation. Ingestion.
Potential Acute Health Effects:
- Eyes: No known acute effects of this product resulting from eye contact.
- Skin: No known acute effects of this product resulting from skin contact.
- Inhalation: No known acute effects of this product resulting from inhalation.
- Ingestion: No known acute effects of this product resulting from ingestion.

Potential Chronic Health Effects:
Carcinogenic Effects: This material is not known to cause cancer in animals or humans.
Medical Conditions Aggravated by Overexposure: Repeated or prolonged exposure is not known to aggravate medical condition.
Additional information See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures
<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability of the Product</td>
<td>Non-flammable.</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions (Fire)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Protective Clothing (Fire)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Explosion Hazards</td>
<td>Not available.</td>
</tr>
<tr>
<td>Section 6. Accidental Release Measures</td>
<td></td>
</tr>
<tr>
<td>Small Spill and Leak</td>
<td>Use appropriate tools to put the spilled solid in a convenient waste disposal container.</td>
</tr>
<tr>
<td>Large Spill and Leak</td>
<td>Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</td>
</tr>
<tr>
<td>Spill Kit Information</td>
<td>No specific spill kit required for this product.</td>
</tr>
<tr>
<td>Section 7. Handling and Storage</td>
<td></td>
</tr>
<tr>
<td>Handling</td>
<td>Avoid breathing dust. Do not ingest. Do not get in eyes, on skin, or on clothing.</td>
</tr>
<tr>
<td>Storage</td>
<td>Keep container in a cool, well-ventilated area.</td>
</tr>
<tr>
<td>Section 8. Exposure Controls/Personal Protection</td>
<td></td>
</tr>
<tr>
<td>Engineering Controls</td>
<td>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.</td>
</tr>
<tr>
<td>Personal Protection</td>
<td></td>
</tr>
<tr>
<td>Eyes</td>
<td>Safety glasses.</td>
</tr>
<tr>
<td>Body</td>
<td>Lab coat.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Hands</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Feet</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Personal Protection in Case of a Large Spill</td>
<td>Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.</td>
</tr>
<tr>
<td>Product Name Exposure Limits</td>
<td>AMMONIUM PHOSPHATE, MONOBASIC</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Color</td>
<td>White.</td>
</tr>
<tr>
<td>Physical State and Appearance</td>
<td>Solid. (Crystals solid. Granular solid.)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not available.</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>H3N.H3O4P</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling/Condensation</td>
<td>Not available.</td>
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<tr>
<td>Melting/Freezing Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
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</tbody>
</table>
Section 10. Stability and Reactivity
Stability and Reactivity The product is stable.
Conditions of Instability Not available.
Incompatibility with Not available.
Various Substances
Rem/Incompatibility Not available.
Hazardous Not available.
Decomposition Products
Hazardous Will not occur.
Polymerization

Section 11. Toxicological Information
RTECS Number: Ammonium Phosphate, Monobasic, GR Not available.
Toxicity LD50: Not available.
LC50: Not available.
Chronic Effects on Humans Not available.
Acute Effects on Humans Not available.
Synergetic Products (Toxicologically) Not available.
Irritancy Draize Test: Not available.
Sensitization Not available.
Carcinogenic Effects This material is not known to cause cancer in animals or humans.
Toxicity to Reproductive System Not available.
Teratogenic Effects Not available.
Mutagenic Effects Not available.

Section 12. Ecological Information
Ecotoxicity Not available.
BOD5 and COD Not available.
Toxicity of the Products of Biodegradation The product itself and its products of degradation are not toxic.

Section 13. Disposal Considerations
EPA Waste Number Not available.
Treatment Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information
DOT Classification Not available.
TDG Classification Not available.
IMO/IMDG Not available.
Classification Not available.
ICAO/IATA Not available.

Section 15. Regulatory Information
U.S. Federal Regulations TSCA 8(b) inventory: AMMONIUM PHOSPHATE, MONOBASED
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: AMMONIUM PHOSPHATE, MONOBASIC
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.
Not controlled under WHMIS (Canada).
CEPA DSL: AMMONIUM PHOSPHATE, MONOBASIC

WHMIS (Canada)

International Regulations

EINECS
DSCL (EEC)

International Lists

AMMONIUM PHOSPHATE, MONOBASIC 231-764-5
This product is not classified according to the EU regulations.

Australia (NICNAS): AMMONIUM PHOSPHATE, MONOBASIC

Japan (MITI): AMMONIUM PHOSPHATE, MONOBASIC

Korea (TCCL): AMMONIUM PHOSPHATE, MONOBASIC

Philippines (RA6969): AMMONIUM PHOSPHATE, MONOBASIC

China: No products were found.

No products were found.

California prop. 65: No products were found.

State Regulations

Section 16. Other Information

National Fire Protection Association (U.S.A.)

<table>
<thead>
<tr>
<th>National Fire Protection Association (U.S.A.)</th>
<th>Health</th>
<th>0</th>
<th>Fire Hazard</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changed Since Last Revision</td>
<td>+</td>
<td></td>
<td></td>
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</tbody>
</table>

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