**PRODUCT NAME:** Epsom Salts USP, Grade  
**PRODUCT CODE:** 06181  
**CAS #:** 007487889  
**MSDS No.:** 000485  
**Revision No./Date:** 01-930316  
**Detail Number:** 00209/01  
**DATE:** 21-Mar-94  
**TIME:** 15:09

**FORMULA:** MgSO₄. 7(H2O)  
**CHEM. FAMILY:** inorganic salts  
**CHEMICAL NAME AND SYNONYMS:**  
- Epsom Salts;  
- Magnesium Sulfate Heptahydrate;  
- Mono-Magnsulf;  
**MSDS 000485 DETAIL 00209**  
**SUPPLIERS NAME:** Harcros Chemicals Inc.  
5200 Speaker Road  
Kansas City  
KS 66106-1095  
**SUPPLIERS PHONE NUMBER:** 913-321-3131  
**TRANSPORTATION EMERGENCY PHONE NUMBER:** 1-800-424-9300

**S.A.R.A. INFORMATION**  
**HAZARDS:** N/A  
**PHYSICAL DATA:** N/A

### SECTION I  HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Max % W/W</th>
<th>SARA Applies</th>
<th>TWA/TLV (ppm)</th>
<th>STEL</th>
<th>CEIL</th>
<th>SKIN Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Sulfate</td>
<td>100.0</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulfuric Acid, Magnesium Salt</td>
<td></td>
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<td></td>
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<tr>
<td>(CAS # 7487-88-9)</td>
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</tbody>
</table>

### SECTION II  HEALTH HAZARDS

**POTENTIAL EFFECTS OF EXPOSURE**  
**EYES**  
Eye contact with product may cause irritation  
**SKIN**  
No hazard expected by this route in normal use.  
**INHALATION**  
Inhalation may cause irritation  
**INGESTION**  
Ingestion may cause diarrhea vomiting nausea  
**TARGET ORGANS**  
**OVEREXPOSURE MAY CAUSE DAMAGE TO,**

- Continued On Page 2
SECTION II HEALTH HAZARDS

None currently known.

FIRST AID

FIRST AID EYES
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

FIRST AID SKIN
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

FIRST AID INHALATION
Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

FIRST AID INGESTION
If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

OTHER INFORMATION

ROUTES OF ENTRY
eye contact

OVEREXPOSURE MAY AGGRAVATE DISORDERS OF THE kidneys

SECTION III SPECIAL PROTECTION

PROTECTIVE EQUIPMENT

PROTECTIVE EQUIPMENT EYES
safety glasses with side shield. Do Not wear contact lenses when working with chemicals.

PROTECTIVE EQUIPMENT SKIN
none normally required

PROTECTIVE EQUIPMENT INHALATION
None normally required.

VENTILATION REQUIRED:
Mechanical general ventilation is usually adequate.

ADDITIONAL PROTECTIVE MEASURES
Safety shower, eye wash fountain, and washing facilities should be readily available.

SECTION IV FIRE & EXPLOSION HAZARD DATA

Flash Point (METHOD): N/A
Flammable Limits (% Volume in Air) 
Upper: N/D Lower: N/D

HMIS Info
Health : 0
Fire : 0
React : 0
Special : X

EXTINGUISHING MEDIA

Continued On Page 3
PRODUCT NAME: EPSOM SALTS USP GRADE  
PRODUCT CODE: 06481

SECTION IV FIRE & EXPLOSION HAZARD DATA

- Media appropriate for surrounding fire
- FIRE FIGHTING PROCEDURES
- Not considered a fire hazard.
- UNUSUAL FIRE & EXPLOSION HAZARDS
- Toxic fumes may be released.

SECTION V PHYSICAL DATA

- Boiling Point: N/D
- Freezing Point: N/D
- Specific Gravity (H(2)O=1): OR = 1.6800 @ 68 deg. F
- Vapor Pressure (MM HG.): N/D
- Vapor Density (AIR=1): N/D
- Evaporation Rate (NA=1): N/D
- Solubility in Water: 50%
- Percent Volatile by Volume: N/D
- pH: aqueous approx. N/D
- Appearance:
  - SOLID - POWDER, CRYSTAL, FLAKE, GRANULE
  - TABLET, PRILL, BRIQUETTE, ETC.
- Odor:
  - NIL

SECTION VI REACTIVITY DATA

- STABILITY
  - Stable
- INCOMPATABILITY
  - None currently known
- HAZARDOUS DECOMPOSITION PRODUCTS
  - Miscellaneous organic compounds, some possibly toxic. Oxides of sulfur
- HAZARDOUS POLYMERIZATION
  - Will not occur

SECTION VII SPILL AND LEAK PROCEDURES

- STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
  - Sweep, shovel, or pick up and return to dry, clean container. Flush spill area with water.
- DISPOSAL METHOD
  - Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable regulations under the Resource Conservation and Recovery Act. Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State.

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Material Safety Data Sheet

Product Name: EPSON SALTS USP GRADE
Product Code: 06481

Section VII Spill and Leak Procedures

Section VIII

Proper Shipping Name: UNCLASSIFIED
Hazard Class: UNCLASSIFIED
Label Requirements: NONE
Reportable Quantity: None

Section IX Additional Information

Precautions:
Do not breathe vapor or mist. Do not swallow. Wash thoroughly after handling.

Storage:
Keep container closed when not in use. Keep out of reach of children.

Name: GENE TURNER
Date Issued: 930316
Date Revised: 930316

N/A = NOT APPLICABLE
N/D = NOT DETERMINED
N/E = NOT ESTABLISHED

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