

MATERIAL SAFETY DATA SHEET Page 1

PRODUCT NAME : EPSOM SALTS USP GRADE Date: 18-JUN-1998 11:39:41.28
PRODUCT CODE : 06433 50# BAG
CAS #: 007487889 MSDS No. 000485 Revision No./Date 01 930316
Detail Number 00209/01

FORMULA: MgSO4 . 7(H2 O)
CHEM. FAMILY: inorganic salts
CHEMICAL NAME AND SYNONYMS:
Epsom Salts;
Magnesium Sulfate Heptahydrate;
Mono-Magsulf;
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

Ingredient Cas Number	MAX % W/W	SARA APPLIES			TWA/TLV (ppm)	AIR CONTAMINANT STEL (ppm)	LEVELS CEIL (ppm)	SKIN	AGENT
		312	313	372					
Magnesium Sulfate Sulfuric Acid, Magnesium Salt (CAS # 7487-88-9)	100.0	Y	N	N					

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,

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Harcros Chemicals Inc
Kansas City, Kansas

MATERIAL SAFETY DATA SHEET Page 2

PRODUCT NAME : EPSOM SALTS USP GRADE Date: 18-JUN-1998 11:39:41.99
PRODUCT CODE : 06433 50# BAG

SECTION II HEALTH HAZARDS

(CONTINUED)

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): > OR = 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

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Harcros Chemicals Inc

Kansas City, Kansas

MATERIAL SAFETY DATA SHEET Page 3

PRODUCT NAME : EPSOM SALTS USP GRADE
PRODUCT CODE : 06433

50# BAG

Date: 18-JUN-1998 11:39:42.73

SECTION IV FIRE & EXPLOSION HAZARD DATA

(CONTINUED)

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
INCOMPATIBILITY
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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Kansas City, Kansas

MATERIAL SAFETY DATA SHEET Page 4

PRODUCT NAME : EPSOM SALTS USP GRADE
PRODUCT CODE : 06433

50# BAG

Date: 18-JUN-1998 11:39:43.36

SECTION VII SPILL AND LEAK PROCEDURES

(CONTINUED)

SECTION VIII

Proper Shipping Name:
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

< = LESS THAN
> = MORE THAN

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

DATE ISSUED: 930316
DATE REVISED: 930316
UNK = UNKNOWN

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