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MATERIAL SAFETY DATA SHEET
MAGNESIUM SULFATE
HEPTAHYDRATE
October 5, 2004

Distributed By:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
304-748-8200

SECTION I.

Physical Address:

P.O. Box 370, (102 Commerce Street)
Waynesville, NC 28786

Chemical Name:

Magnesium Sulfate Heptahydrate

Formula:

MgSO₄·7H₂O

CAS No:

7487 - 88 - 9 TSCA Considers Hydrates as
Mixtures of Anhydrous Salt and Water

SECTION II.

Hazardous Ingredients

Material or Component:
Hazard Date:

NONE
NONE

SECTION III.

Physical Data

Boiling Point 760 MM HG:
Specific Gravity (H₂O.1):
Vapor Density (Air.1):
% Volatiles by Volume:
Appearance & Odor:

DOES NOT BOIL

1.88

N/A

N/A

SMALL COLORLESS CRYSTALS,

ODORLESS

°C 70D - LOSES WATER

Melting Point:

N/A

Vapor Pressure:

APPRECIABLE

Solubility In H₂O by Weight:

N/A

Evaporation Rate (Butyl Acetate):

SECTION IV.

Fire & Explosion Data

Flash Point (Test Method):
Autoignition Temperature:
Flammable Limits In Air, % by Volume:
Extinguishing Media:
Special Fire Fighting Procedures:
Unusual Fire & Explosion Hazard:

NON-FLAMMABLE MATERIAL

N/A

N/A

N/A

PROPER BREATHING EQUIPMENT

EXTREMELY HIGH TEMPERATURES

MAY PRODUCE SULFUR TRIOXIDE &

SULFUR DIOXIDE

SECTION V.

Health Hazard Information

Health Hazard Data

NO EXPOSURE LIMITS HAVE BEEN
ESTABLISHED BY OSHA

Routes of Exposure:

Inhalation:

POSSIBLE DUST IRRITATION

Skin Contact:

NONE

Skin Absorption:

NONE

Eye Contact:

POSSIBLE DUST IRRITATION

Ingestion:

MAY CAUSE BOWEL MOVEMENT
IF SWALLOWED, CONSULT PHYSICIAN

NOTE TO PHYSICIAN: Magnesium Sulfate/Heptahydrate (Epsom Salt), is an inorganic chemical having no properties which are deleterious to the skin of humans, internally or externally. For several hundred years it has been widely used as a cathartic and analgesic in aqueous solution. It is in the US Pharmacopia XXII as well as the Food Chemical Codex.

Effects of Overexposure:
Acute Overexposure:

MAY CAUSE EXCESSIVE BOWEL
MOVEMENT IF SWALLOWED,
ABDOMINAL CRAMPS.

Chronic Overexposure:

IF OVER 10 GRAMS SWALLOWED,
CONSULT PHYSICIAN

Emergency & First Aid Procedures

Eyes:
Skin:
Inhalation:
Ingestion:

WASH WITH WARM WATER (H₂O)
N/A
LEAVE DUST AREA FOR FRESH AIR
CONSULT PHYSICIAN. IF LARGE
AMOUNTS ARE INGESTED, INDUCE --
VOMITING.

SECTION VI.

Reactivity Data
Conditions Contributing to Instability:
Incompatibility:
Hazardous:

STABLE
NONE
EXTREMELY HIGH TEMPERATURES,
MAY PRODUCE SULFUR TRIOXIDE &
SULFUR DIOXIDE.

Conditions Contributing to Hazardous
Polymerization:

WILL NOT OCCUR

SECTION VII.

Spill or Leak Procedures - Not A RCRA Hazardous Waste
Steps to be Taken if Material is Spilled/Released:

NO SPECIAL PRECAUTIONS
NECESSARY
DILUTE WITH WATER (H₂O) OR
SWEEP & DISPOSE OF PROPERLY.

Waste Disposal Method:

SECTION VIII.

Special Protection Information
Ventilation Requirements:

APPROPRIATE DUST CONTROL
EQUIPMENT REQUIRED
FOR OPERATORS. RESPIRATOR
COULD BE WORN IN ABNORMAL
DUST CONDITIONS

Specific Personal Protection Equip.:

Respiratory (specify in detail)
Eye:

NORMAL EYE PROTECTION FOR
DUST
NONE
NONE

Gloves:
Other Clothing & Equipment:

SECTION IX.

Special Precautions
Precautionary Statements:
Other Handling & Storage Requirements:

NONE
NONE

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950