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MATERIAL SAFETY DATA SHEET
MAGNESIUM SULFATE
HEPTAHYDRATE
October 5, 2004

SECTION I.

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

Chemical Name: Magnesium Sulfate Heptahydrate

Formula: $MgSO_4 \cdot 7H_2O$

CAS No: 7487 – 88 – 9 TSCA Considers Hydrates as
Mixtures of Anhydrous Salt and Water

SECTION II.

Hazardous Ingredients
Material or Component: NONE
Hazard Date: NONE

SECTION III.

Physical Data

Boiling Point 760 MM HG:	DOES NOT BOIL
Specific Gravity (H ₂ O.1):	1.68
Vapor Density (Air.1):	N/A
% Volatiles by Volume:	N/A
Appearance & Odor:	SMALL COLORLESS CRYSTALS, ODORLESS
Melting Point:	°C 70D – LOSES WATER
Vapor Pressure:	N/A
Solubility in H ₂ O by Weight:	APPRECIABLE
Evaporation Rate (Butyl Acetate):	N/A

SECTION IV.

Fire & Explosion Data

Flash Point (Test Method):	NON-FLAMMABLE MATERIAL
Autoignition Temperature:	N/A
Flammable Limits In Air, % by Volume:	N/A
Extinguishing Media:	N/A
Special Fire Fighting Procedures:	PROPER BREATHING EQUIPMENT
Unusual Fire & Explosion Hazard:	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:

WASH WITH WARM WATER (H2O)

Skin:

N/A

Inhalation:

LEAVE DUST AREA FOR FRESH AIR

Ingestion:

CONSULT PHYSICIAN. IF LARGE
AMOUNTS ARE INGESTED, INDUCE --
VOMITING.

SECTION VI.

Reactivity Data

Conditions Contributing to Instability:

STABLE

Incompatibility:

NONE

Hazardous:

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

Waste Disposal Method:

DILUTE WITH WATER (H₂O) OR
SWEEP & DISPOSE OF PROPERLY.

SECTION VIII.

Special Protection Information

Ventilation Requirements:

APPROPRIATE DUST CONTROL
EQUIPMENT REQUIRED

Specific Personal Protection Equip.:

FOR OPERATORS, RESPIRATOR
COULD BE WORN IN ABNORMAL
DUST CONDITIONS

Respiratory (specify in detail)

Eye:

NORMAL EYE PROTECTION FOR
DUST

Gloves:

NONE

Other Clothing & Equipment:

NONE

SECTION IX.

Special Precautions

Precautionary Statements:

NONE

Other Handling & Storage Requirements:

NONE

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950