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## MATERIAL SAFETY DATA SHEET MAGNESIUM SULFATE HEPTAHYDRATE

November 4, 2011

### SECTION I.

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

**Chemical Name:** Magnesium Sulfate Heptahydrate

**Formula:** MgSO<sub>4</sub>·7H<sub>2</sub>O

**CAS No:** 10034-99-8\*

\*Under the Toxic Substance Control Act (TSCA), hydrates are considered as mixtures of their anhydrous salt and water. Accordingly, the CAS Number 7487-88-9, 7732-18-5 are used for purposes of TSCA.

### SECTION II.

**Hazardous Ingredients**  
Material or Component: NO

NE Hazard Date: NO

NE

### SECTION III.

**Physical Data**

Boiling Point 760 MM HG:	DOES NOT
BOIL Specific Gravity (H <sub>2</sub> 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 <sub>2</sub> O by Weight:	APPRECIAB
LE 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:  
MOVEMENT

MAY CAUSE BOWEL  
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 (H<sub>2</sub>O)  
N/A  
LEAVE DUST AREA FOR FRESH AIR  
CONSULT PHYSICIAN. IF LARGE  
AMOUNTS ARE INGESTED, INDUCE --  
VOMITING.

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**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

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**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 (H<sub>2</sub>O) OR  
SWEEP & DISPOSE OF PROPERLY.

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**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

Gloves:

NONE

Other Clothing & Equipment:

NONE

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**SECTION IX.**

Special Precautions

Precautionary Statements:

NONE

Other Handling & Storage Requirements:

NONE