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**MATERIAL SAFETY DATA SHEET**  
**MAGNESIUM SULFATE SOLUTION**  
March 12, 2007

**SECTION I.**

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

**Chemical Name:** Magnesium Sulfate Solution  
**Formula:** MgSO<sub>4</sub>

**CAS No:** 7487 – 88 – 9

**SECTION II.**

Hazardous Ingredients  
Material or Component: NONE  
Hazard Date: NONE

**SECTION III.**

Physical Data  
Boiling Point 760 MM HG: 212 Degrees F  
Specific Gravity ( H<sub>2</sub>O.1): VARIES BY CONCENTRATION & TEMPERATURE  
Vapor Density (Air.1): N/A  
% Volatiles by Volume: N/A  
Appearance & Odor: LIGHT COLORLESS SOLUTION,  
ODERLESS  
Melting Point: N/A  
Vapor Pressure: N/A  
Solubility in H<sub>2</sub>O by Weight: N/A  
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 BREATHIG 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: N/A  
Skin Contact: NONE  
Skin Absorption: NONE  
Eye Contact: POSSIBLE IRRITATION IF EYE CONTACTS  
WITH LIQUID

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 2 OUNCES SWALLOWED, CONSULT PHYSICIAN
Emergency & First Aid Procedures	
Eyes:	WASH WITH WARM WATER (H2O)
Skin:	N/A
Inhalation:	N/A
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	N/A
Steps to be Taken if Material is Spilled Released:	NO SPECIAL PRECAUTIONS NECESSARY
Waste Disposal Method:	DILUTE WITH WATER (H <sub>2</sub> O) NOT A HAZARDOUS WASTE.

**SECTION VIII.**

Special Protection Information	
Ventilation Requirements:	NONE
Specific Personal Protection Equip.:	NONE
Respiratory (specify in detail)	NONE
Eye:	NORMAL EYE PROTECTION FOR SPLASH PROTECTION
Gloves:	NONE
Other Clothing & Equipment:	NONE

**SECTION IX.**

Special Precautions	
Precautionary Statements:	NONE
Other Handling & Storage Requirements:	NONE

***PRODUCERS OF MAGNESIUM SULFATE SINCE 1950***