

P. O. Box 370 Waynesville, NC 28786 USA Tel 828 452 4784 Fax 828 452 4786

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: MgSO₄'7H₂O

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: NONE Hazard Date: NONE

SECTION III.

Physical Data

Boiling Point 760 MM HG: DOES NOT BOIL

 $\begin{array}{lll} \text{Specific Gravity (H}_2\text{0.1}): & 1.68 \\ \text{Vapor Density (Air.1):} & \text{N/A} \\ \text{\% Volatiles by Volume:} & \text{N/A} \\ \end{array}$

Appearance & Odor: SMALL COLORLESS CRYSTALS,

ODORLESS

Melting Point: "C 70D – LOSES WATER

Vapor Pressure: N/A

Solubility in H₂O 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

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

Éyes: 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: STABILE 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 (H₂0) OR

SWEED & DISPOSE OF BRODERI V

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 NONE

Gloves: NONE Other Clothing & Equipment: NONE

SECTION IX.

Special Precautions

Precautionary Statements: NONE Other Handling & Storage Requirements: NONE

PRODUCERS OF MAGNESIUM SULFATE SINCE 1950