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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Magnesium Oxide Baymag  
30**

**MA500-00**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 01-Jan-14  
**TELEPHONE NO.:** (519) 451-1614  
**EMERGENCY PHONE NO.:** (613) 996-6666  
**CHEMICAL FAMILY:** Not Available  
**MOLECULAR WEIGHT:** Not Applicable  
**SYNONYMS:**

**CHEMICAL FORMULA:** O4SZN  
**MATERIAL USE:** Please Refer to technical literature

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Magnesium Oxide	94 - 98	1309-48-4	N.Av.	N.Av.	N.Av.
Calcium Oxide	1.5 - 4	305-78-8	N.Av.	N.Av.	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** May cause irritation of eyes.

**Skin:** May cause irritation of skin.

**Inhalation:** May cause irritation of the upper respiratory passages. Inhalation of magnesium oxide fume may cause metal fume fever, however no evidence of metal fume fever resulting from industrial exposure to magnesium oxide fume has been found. Symptoms of metal fume fever include; cough, tightness of chest, sweating, headache, fever, muscle aches, nausea, vomiting and tiredness.

**Ingestion:** No significant effects are expected to occur.

### SECTION 04: FIRSTAID

**Skin Contact:** Not expected to cause a problem. However, if irritation occurs, flush affected area with water. If irritation Persists, obtain medical attention.

**Eye Contact:** If irritation occurs, immediately flush eyes with water for at least 10 minutes. Obtain medical attention.

**Inhalation, Acute:** If symptoms of exposure are experienced (see Hazards Identification), remove victim to fresh air. Obtain medical attention.

**Ingestion:** Rinse mouth with and/or drink water if conscious. Obtain medical attention.

**Notes to physician:** N.Av.

**SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES**

<b>FLAMMABLE?</b>	No
<b>IF YES, UNDER WHICH CONDITIONS?</b>	
<b>FLASH POINT (TCC) (C):</b>	Not Available
<b>FLAMMABLE LIMITS:</b>	<b>LEL(% BY VOL.):</b> Not Available <b>UEL(% BY VOL.):</b> Not Available
<b>AUTO IGNITION TEMPERATURE (C)</b>	Not Available
<b>EXTINGUISHING MEDIA</b>	Not Available
<b>SPECIAL PROCEDURES:</b>	Not Available
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Not Available
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	Not Available
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not Available
<b>SENSITIVITY TO MECHANICAL IMPACT:</b>	Not Available

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedure:** Pick-up spills without creating dust. Place material into a dry container and cover. Hold in sealed container for disposal. Use personal protective equipment as required (See Section 8 - Exposure Controls and Personal Protection).

**SECTION 07: HANDLING AND STORAGE****Handling Procedures and Storage Requirements**

Avoid inhalation of dust. Clean area frequently to avoid dust build-up. Wear applicable personal protective equipment as indicated in Section 8 – Exposure Controls and Personal Protection. Store in a dry area in sealed containers. Keep away from incompatible materials such as interhalogens and strong acids. Avoid contact with water - product reacts exothermically with water to form magnesium hydroxide and heat/steam. Water contact in closed or restricted storage vessels may cause heat, swelling, and possible rupture of storage vessel.

**SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS**

<b>GLOVES/TYPE:</b>	Impervious chemical resistant gloves
<b>RESPIRATOR/TYPE:</b>	If adequate engineering controls are not available, wear respirator approved by NIOSH/MSHA for dusts/mists, as applicable. If magnesium oxide fume is likely to be produced then ensure that a NIOSH/MSHA respirator approved for fumes is used. In conditions of oxygen deficiency, or where airborne concentrations exceed 100mg/m <sup>3</sup> , wear positive pressure or pressure demand supplied air respiratory protection or SCBA.
<b>EYE/TYPE:</b>	Wear safety goggles in high dust concentrations, unless full face-piece respiratory protection is worn. Wear coveralls.
<b>OTHER/TYPE:</b>	Not Available
<b>ENGINEERING CONTROL</b>	Engineering controls may include process enclosure and/or local exhaust ventilation to maintain dust concentrations below allowable exposure limits. Local exhaust ventilation with or without process enclosure is important where large quantities are handled, as in bagging operations.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE/APPEARANCE:</b>	White to light brown powder
<b>ODOUR:</b>	Odourless
<b>ODOUR THRESHOLD:</b>	N. Av.
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	N. Av.
<b>VAPOUR DENSITY (Air=1):</b>	N. Av.
<b>EVAPORATION RATE (Ether = 1):</b>	N. Av.
<b>SPECIFIC GRAVITY:</b>	3.58 g/cc
<b>BOILING POINT (C):</b>	>500.C
<b>FREEZING POINT (C)</b>	100.C
<b>Ph (% SOLUTION):</b>	3600°C
<b>% VOLATILE (WT):</b>	N. Av.
<b>SOLUBILITY IN WATER (% W/W)</b>	0.0006 g/100ml

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICALLY STABLE?** Yes

**IF NO, UNDER WHICH CONDITIONS?**

**INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes

**IF YES, WITH WHICH ONES:** Strong Acids, Interhalogens (eg. Bromine pentafluoride, chlorine tri-fluoride), phosphorous pentachloride.

**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Magnesium fume may be generated if heated to volatilization. Heat and Steam may be generated upon contact with water.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**EXPOSURE LIMIT OF MATERIAL** N Av  
**LC 50 OF MATERIAL, SPECIES AND ROUTE** N Av  
**LD 50 OF MATERIAL, SPECIES AND ROUTE** N Av  
**CARCINOGENICITY OF MATERIAL** N Av  
**REPRODUCTIVE EFFECTS:** N Av  
**IRRITANCY OF MATERIAL** N Av  
**SENSITIZING CAPABILITY OF MATERIAL** N Av  
**SYNERGISTIC MATERIALS** N Av

**SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY** N Av

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Waste Disposal Recycle: If possible. Consult your local or regional authorities.

**SECTION 14: TRANSPORT INFORMATION**

**TDG CLASSIFICATION** Class , Magnesium Oxide Baymag 30

**UN NUMBER:**

**PACKING GROUP:**

**Special Provisions for Transport** NON REGULATED.

**SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION** NON-REGULATED

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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**SOURCES:** Supplier MSDS

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