

SAFETY DATA SHEET

## Section 1: IDENTIFICATION

**Product Name:** Magnesium Oxide Baymag 30  
**Chemical Family:** Not Available  
**Chemical Formula:** O4SZN  
**Molecular Weight:** Not Applicable  
**Material Use:** Drilling Fluid Additive  
**Manufacturer/Supplier:** Bri-Chem Supply Ltd.  
27075 Acheson Road  
Acheson, AB T7X 6B1  
**Phone Number:** 780-962-9490  
**Emergency Phone:** CHEMTREC 1-800-424-9300

## Section 2: HAZARD(S) 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 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc Approx %	CAS #	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 4: FIRST-AID MEASURES

**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.

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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 5: FIRE-FIGHTING MEASURES

Flammable?	No
If yes, Under Which Conditions?	
Flash Point (TCC) (C):	Not available
Flammable Limits:	LEL(% BY VOL.): Not available UEL(% BY VOL): Not available
Auto Ignition Temperature (C):	Not available
Extinguishing Media:	Not available
Special Procedures:	Not available
Hazardous Combustion Products:	Not available
Unusual Fire and Explosion Hazards:	Not available
Sensitivity to Static Discharge:	Not available
Sensitivity to Mechanical Impact:	Not available

## Section 6: 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).
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## Section 7: 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.
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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 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<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 with or without process enclosure is important where large quantities are handled, as in bagging operations.

## Section 9: 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>	N. Av.
<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

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## Section 10: STABILITY AND REACTIVITY

Chemically Stable?	Yes
If No, Under Which Conditions?	
Incompatibility with Other Substances:	Yes
If Yes, 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
LC50 of Material, Species and Route:	N Av
LD50 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
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## Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Waste Disposal Recycle: If possible. Consult your local or regional authorities.
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## 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

**Disclaimer:**

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**Prepared by:** Bri-Chem Supply Ltd.

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