



SILVERTHORNE REFRACTORIES INC.

## SAFETY DATA SHEET

### SECTION 1 – Chemical Product and Company Identification

Product Identifier: SRI MAG SEAL

Product Use: Basic Ladles

Manufactures Name: Silverthorne Refractories Inc.  
205 Forest St. E.,  
Dunnville, Ontario  
N1A 3G5

Supplier: Same as Manufacturer

SDS Prepared October 22, 2015

SDS Prepared by: Bob Silverthorne

Phone Number: 905-774-1269

### SECTION 2 – Hazards Identification

X Skin Skin Absorption X Eye Contact X Inhalation X Ingestion

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Inhalation Acute	Yes
Skin Contact	Yes
Inhalation Chronic	Yes
Skin Absorption	Yes

WHMIS Symbols



Potential Health Effects: Skin and respiratory tract sensitization possible.  
Dust may irritate eyes, nose, throat, and skin



# SILVERTHORNE REFRACTORIES INC.

## SECTION 3 - Composition/Information on Ingredients

Hazardous Ingredients	%	CAS No.	Exposure Limit
MAGNESIUM OXIDE	93 – 96 %	1309-48-8	10MG/M3
SILICON DIOXIDE	2 – 3 %	7631-86-9	2MG/M3
CALCIUM OXIDE	1 – 3 %	1305-78-8	2MG/M3
IRON OXIDE	0 – 1 %	1309-37-1	2MG/M3
ALUMINUM OXIDE	0 – 1 %	1344-28-1	2MG/M3

## SECTION 4 – First Aid Measures

EYES:	Flush with plenty of water, consult physician immediately
SKIN:	Wash with soap and water. If irritation continues, consult physician
INHALATION:	Remove person to fresh air, consult a physician
INGESTION:	Do not induce vomiting, consult a physician immediately

## SECTION 5 – Fire Fighting Measures

Flash Point Method	N/A
Auto Ignition Temp.	N/A
Lower Explosion Limit	N/A
Upper Explosion Limit	N/A
MEANS OF EXTINCTION:	Foam, Dry chemical
SPECIAL PROCEDURES:	If involved in fire, wear self contained breathing apparatus
EXPLOSION DATA:	Sensitivity to mechanical impact – N/A Sensitivity to static charge – N/A
HAZARDOUS COMBUSTION PRODUCTS:	N/A

## SECTION 6 – Accidental Release Measure



# SILVERTHORNE REFRACTORIES INC.

Leak and Spill Procedures: Sweep or vacuum, do not create dust. Wear approved respirator

## SECTION 7 – Handling and Storage

Handling: Wear gloves, goggles, approved Dust Mask and clothing as required to prevent long exposure to skin.

Storage requirements: Store in cool, dry area

## SECTION 8 – Exposure Control/Personal Protection

Exposure Limits \_ACGHI \_ OSHA PEL \_ Other (specify)

Specific Engineering Controls (such as ventilation/enclosed process)

Personal Protective Equipment

X Gloves X Respirator X Eye Footwear X Clothing Other

Gloves

Eyes

Respiratory

Clothing & Equipment

Yes

Safety Goggles

Approved Dust Mask

As required to prevent  
prolong exposure to skin

## SECTION 9 – Physical and Chemical Properties

Appearance: Beige to light brown.

Odour: Slight odor.

Odour: Threshold: not applicable

pH: Not available.

Melting Point/Freezing Point: 2570 Celcius/0 Degrees Celcius

Boiling Point & Range: 2850 Celcius



## SILVERTHORNE REFRACTORIES INC.

Flash Point: not applicable

Evaporation Rate: not applicable

Flammability: not applicable

Upper/Lower Flammability or Explosive Limits: not applicable

Vapour Pressure/Density: Non Volatile

Relative Density: 2.4 – 3.2

Solubility: Not Soluble

Partition Coefficient: n-octanol/water not applicable

Auto Ignition Temperature: not available

Decomposition Temperature: not available

Viscosity: Not Applicable

### **SECTION 10 – Stability and Reactivity**

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Avoid contact with water – product reacts exothermically with Water to form magnesium hydroxide and heat/steam.

Incompatible Substances: Strong acids, inerhalogens (eg. bromine pentafluoride, Chlorine tri-fluoride, phosphorous pentachloride.

Hazardous Decomposition Products: Magnesium fume may be generated if heated to Volatization, heat and steam may be Generated upon contact with water

Hazardous Polymerization: Does not occur.

### **SECTION 11 – Toxicological Information**

LD50/LC50

No data available.



# SILVERTHORNE REFRACTORIES INC.

Irritancy:	May cause irritancy of eyes, skin or nasal passage.
Sensitizer:	No data available.
Carcinogen:	Magnesium oxide (CAS#1309-48-4) is not listed as a Carcinogen by ACGIH, IARC, NIOSH, NTP or OSHA
Teratogen:	No data available.
Reproductive Toxin:	No data available.
Mutagen:	No data available.
Synergistic:	None known.

## SECTION 12 – Ecological Information

No data available.

## SECTION 13 – Disposal Considerations

Waste Disposal: This product does not meet the criteria of a hazardous waste. Dispose in accordance with all applicable Federal, State, Provincial and Local environment Regulations.

## SECTION 14 – Transport Information

Special Shipping Information

TDG	DOT
IMO	CAO

## SECTION 15 – Regulatory Information

Inventory/Regular Lists:

Magnesium oxide is reported on the following national inventory and/or regulatory lists:



# SILVERTHORNE REFRACTORIES INC.

Canada Domestic Substance List 1309-48-4

Europe European Inventory of Existing Commercial Chemical Substances (EINECS)  
215-171-9

USA Toxic Substance Control Act (TSCA) Inventory List 8(b) 1309-48-4

WHMIS: WHIMAS CLASSIFICATION: Does not meet criteria.

This product has been classified in accordance with the hazard criteria of the CPR (controlled Products Regulations) and this MSDS contains all of the Information required by the C"PR.

CEPA: This product is not listed as as toxic substance under the Canadian Environmental Protection Act (SEPA 1999).

CERCLA: Not listed as a hazardous substance.

SARA TITLE III:

Section 302: Product is not listed as an extremely hazardous substance EHS).

Section 304: Emergency release notification not required.

Section 311/312: Hazard category, acute (nuisance dust).

MSDS, chemical inventory, Tier I/II reporting are applicable.

Section 313: Product is not subject to form R reporting.

## SECTION 16 – Other Information

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, express or implied, regarding the accuracy, correctness, or suitability of this information for application to the purchasers intended use. The conditions or methods of handling, storage, use and disposal of the product are beyond our control. We, therefore, do not assume the responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.