



## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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- **Product name:** DSC Hydro Mag
- **Product Description:** Component of Refractory crucibles, fire bricks, insulation, rubber compounds, magnesia cements and boiler scale compounds, lab reagent.
- **Manufacturer:** Deep South Chemical, Inc.  
229 Millstone Road  
Broussard, LA 70518 (337) 837-9931
- **For Emergency: Call CHEMTREC 1-800-424-9300 Outside the U.S.A. (703)-527-3887**
- **Contact Person:** Glenn Ray
- **Formula:** MgO
- **MSDS Revised:** January 1, 2014

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Magnesium Oxide	1309-48-4	2-5	15mg/m <sup>3</sup>	N/E	10 mg/m <sup>3</sup>	N/E	750mg/m <sup>3</sup>

### SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

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#### Effects of overexposure

**Inhalation:** This product may cause irritation to nose, throat, and respiratory tract

**Skin Contact:** This product may cause irritation to the skin. Defatting of the skin can occur with frequent or long-term skin contact.

**Eye Contact:** Irritation to eyes.

**Ingestion:** There may be irritation of the mouth, throat, and digestive tract.

### SECTION 4. FIRST AID MEASURES

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**Eyes:** Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

**Inhalation:** Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

**Skin:** Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

**Ingestion:** Drink plenty water. Seek medical attention.

### SECTION 5. FIRE FIGHTING MEASURES

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#### Fire fighting measures

**Extinguishing Media:** MgO is noncombustible. Use appropriate extinguishing media for surrounding fire.

**Decomposition/Combustion Products:** Oxides of carbon.

**Special Fire Fighting Procedures:** Water spray to cool drums.

#### Explosive Properties:

LEL: N/D

UEL: N/D

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Steps to be taken if material is released or spilled:** Use proper personal protective equipment. Stay upwind from spill. For small dry spills, carefully scoop material into suitable containers for later disposal. Vacuuming (with appropriate filter) or wet mopping may minimize dust dispersion. For small solution spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. For large spills, dike far ahead of liquid spills for later disposal.

**Waste disposal method:** Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

## SECTION 7. HANDLING AND STORAGE

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**Storage:** Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. MgO can absorb carbon dioxide and water from the air. It combines with water to form magnesium hydroxide.

**Handling:** Use proper personal protective equipment. Avoid contact with skin or eyes. Handle in well-ventilated workspace.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Ventilation:** Keep work area well ventilated.

**Protective clothing:** Impermeable gloves and impervious clothing as appropriate.

**Eye protection:** Chemical goggles where splashing may occur.

**Respiratory Protection:** Use appropriate respiratory protection when handling or in case of insufficient ventilation.

**Special Protection:** Safety shower, eye bath, and washing facilities should be available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Specific gravity @ 75°F(H<sub>2</sub>O = 1):** 3.65 to 3.75

**Flash Point(PMCC Method)(°F):** N/D

**Vapor density (Air = 1):** N/D

**Solubility:** Partially soluble in water (6.2mg/L @ 68°F)

**Vapor pressure @ 75:** N/D

**Evaporation Rate:** N/D

**Appearance:** White, very fine powder.

**Odor:** None

**Boiling Point (°F):** 6480

**Melting Point (°F):** 5072

**pH:** N/A

**Auto-ignition:** N/D

## SECTION 10. STABILITY AND REACTIVITY

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**Stability and Reactivity:** Stable in normal conditions.

**Incompatible Materials:** Reacts violently or ignites with interhalogens such as chlorine trifluoride or bromine pentafluoride, and incandescently with phosphorus pentachloride.

**Hazardous Decomposition Products:** Smoke, carbon oxides.

**Hazardous Polymerization:** None described.

## SECTION 11. TOXICOLOGICAL INFORMATION

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**Hamster, intratracheal, TD<sub>LO</sub>:** 480mg/kg administered intermittently into the trachea for 30 weeks may cause tumorigenic activity.

## SECTION 12. ECOLOGICAL INFORMATION

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MgO is considered to be of low solubility and toxicity in water since a concentration of greater than 100ppm during a 96-hr test period is the median tolerance level (TLm) at which 50% of the aquatic organisms survive.



**SECTION 13. DISPOSAL CONSIDERATIONS**

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**Disposal:** If spilled, dispose according to local, state, and federal regulations. Recycle waste containers and clean out residues.

**SECTION 14. TRANSPORT INFORMATION**

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**DOT Transport Information:** Non-Regulated

**SECTION 15. REGULATORY INFORMATION**

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**Toxic Substances Control Act (TCSA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CERCLA RQ-40 CFR 302.4(a)**

Component

CERCLA RQ

None

**SARA 302 Components-40 CFR 355 Appendix A**

None

**Section 311/312 Hazard Class-40 CFR 370.2**

Immediate (X)

Delayed ( )

Fire ( )

Reactive ( )

Sudden Release of Pressure ( )

**SARA 313-40 CFR 372.65**

Component

CAS Number

%

None

**SECTION 16. OTHER INFORMATION**

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**NFPA RATING: Health (2) Fire (0) Reactivity (0)**

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N/D= No data; N/A = Not available; N/E= Not established