

# MATERIAL SAFETY DATA SHEET

## MELT-N-GRIP

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Umaco Inc.  
60 Rear Newhall Street  
Lowell, Ma. 01852

PRODUCT NAME: MELT-N-GRIP  
GENERAL ID : A MATERIAL USED TO  
TO CONTROL ICE &  
SNOW

Emergency Phone (Chemtrec) 1-800-424-9300  
Informational Phone (Umaco) 1-978-453-8881  
Date Prepared: 2 / 10 / 05

### 2. HAZARDOUS INGREDIENTS/ IDENTITY- SECTION 313 SUPPLIER NOTIFICATION- THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40CFR 372

Hazardous Components	Osha/Pel	Acgih	Other	WT. %
CAS #	Ingredient	TLV	Limits	
14808-60-7	Silica, Crystalline Quartz	10mg/cubic m	0.1mg/cubic m	75
7791-18-6	Magnesium Chloride	n/e	n/e	25

### 3. HEALTH HAZARDS IDENTIFICATION (ACUTE & CHRONIC)

Routes of entry:      Inhalation:    yes      Skin:    yes      Ingestion:    yes

#### Health Hazards (Acute and Chronic):

**Acute:** Acute or rapidly developing silicosis may occur in a short period of time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and lead to death.

**Chronic:** Prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis)

**Ingestion:** Since magnesium salts are slowly absorbed, abdominal pain, vomiting and diarrhea may be the only symptoms. However, if elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes, hypocalcaemia may occur. **Inhalation:** Causes irritation to the respiratory tract. **Skin and Eyes:** Causes irritation to the skin and upper respiratory system

Carcinogenicity: NTP: No      IARC MONOGRAPHS YES      OSHA REGULATED No

**Signs and Symptoms of Exposure:** Coughing, shortness of breath, irritation to the eyes and upper respiratory system. Burning sensation. Material can dry skin.

#### Medical Conditions Generally Aggravated by Exposure:

Lung disease, bronchitis, emphysema, chronic obstructive pulmonary disease

### 4. EMERGENCY FIRST AID PROCEDURES

**Eyes:** Flush with clean water for 15 minutes. If irritation persists **Seek immediate medical attention**

**Skin:** Wash skin with soap and water. If irritation persists **Seek immediate medical attention.**

**Inhalation:** Remove to fresh air; give artificial respiration if needed. Induce vomiting only if victim is alert. Should vomiting occur be sure to keep victim's head below the hips to prevent aspiration of vomit into the lungs. **Seek immediate medical attention.**

**Ingestion:** Drink large amounts of water to dilute. Should vomiting occur be sure to keep victim's head below the hips to prevent aspiration of vomit into the lungs. **Seek immediate medical attention.**

**Note to physician:** IV administration of calcium gluconate will partially reverse the effects of acute magnesium toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis has also been successful.

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## 5. FIRE FIGHTING MEASURES

Flash point	none	Flammable Limits LEL	n/a
Method Used	n/a	UEL	n/a

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire

**Special Fire Fighting Procedures:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing equipment with full face piece operated in positive pressure mode.

**Unusual Fire and Explosion Hazards:** Not considered to be an explosion hazard. At room temperature the addition of magnesium chloride to furan-2-peroxycarboxylic acid will cause the acid to explode.

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## 6. ACCIDENTAL RELEASE MEASURES

If still dry sweep or vacuum up. If wet remove with absorbent materials such as sand or clay. Transfer material to container for disposal in accordance to local, state and federal regulations. Keep spilled product out of sewers, watersheds or water systems.

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## 7. HANDLING AND STORAGE:

Store in a tightly closed container within a cool, dry ventilated place. Use in well ventilated areas. Avoid breathing vapors.

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## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

**Respiratory Protection:** Nuisance dust masks

**Protective Gloves:** Chemical resistant gloves recommended

**Eye Protection:** Recommended, preferably tight fitting goggles or safety glasses with side shields

**Other Protective Clothing:** Any other approved protective clothing as needed

**Hygienic/Work Practices:** Remove and wash soiled clothing and shoes. Wash hands thoroughly before eating or smoking

**Ventilation:** Local Exhaust needed in dusty conditions

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## 9. PHYSICAL & CHEMICAL PROPERTIES

**Boiling point** N/A      **Vapor Pressure** N/A      **Vapor Density** N/A      **Melting Point** 244 Deg F

**Evaporation Rate ( Butyl Acetate = 1 )** N/A      **Solubility in Water** Magnesium - 100% complete

**Appearance and Odor:** Off white granular flakes, neutral odor

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## 10. STABILITY & REACTIVITY

**Stability:**      Unstable      Stable X      **Hazardous Polymerization:**      May Occur      May Not Occur X  
**Conditions to Avoid:** Furan-2-peroxycarboxylic acid. Strong oxidizing agents will release chlorine. Avoid heat, moisture and incompatibles.

**Incompatibility:** Silica reacts with oxidizers such as fluorine, chlorine, trifluorides and oxygen difluoride. May cause fire if product comes in contact with these chemicals. Avoid contact with boric oxide and acids.

**Hazardous Decomposition: Silica:** Dissolved by hydrofluoric acid producing corrosive silicon tetrafluoride gas.

**Magnesium:** When heated to decomposition it emits corrosive hydrochloric acid vapor. When heated to temperatures above 572 Deg. F it emits toxic fumes of chlorine gas.

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## 11. TOXICOLOGICAL INFORMATION

See sections 2 and 3 for specific toxicological information for ingredients of this product.

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## 12. ECOLOGICAL INFORMATION

Keep spilled product out of sewers, watersheds or water systems

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## 13. DISPOSAL CONSIDERATIONS

In accordance with latest Federal, State and Local disposal regulations

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#### 14. TRANSPORTATION INFORMATION

Not regulated

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#### 15. REGULATIONS

This MSDS has been prepared in accordance with the Federal OSHA Hazard Communication Standard 29CFR 1910.120

All components of this product are listed on the Toxic Substance Inventory or are excluded from listing requirements

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#### 16. OTHER INFORMATION / SAFETY PHRASES

**SIGNAL WORD: MAY BE HARMFUL IF SWALLOWED**

**KEEP OUT OF THE REACH OF CHILDREN**

Read all instructions before using this product.

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