

Z-01457

MATERIAL SAFETY DATA SHEET

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SDS PREPARED BY: Environmental Health Dept.-Grace Construction Products

A.R. Grace & Co.-Conn.
62 Whittemore Ave.
Cambridge, MA 02140Grace Canada, Inc.
294 Clements Rd. West
Ajax, Ontario, L1S 3C6Telephone Number for Information and Emergency Response
In USA: (617) 876-1400 In Canada: (905) 683-8561

MSDS Number: Z-01457 000001 Cancels MSDS # Z-01430 Date: 06/22/1998

Trade Names and Synonyms:
(SEE SECTION 16 FOR ADDITIONAL
PRODUCT IDENTIFICATION)

MONOKOTE® TYPE MK-6/HY

Chemical Names and Family:

Lightweight Gypsum-Aggregate Plaster

Product Use:

Fireproofing Product

Formula:Blend Of Gypsum,Hydrous Magnesium,Alumi-
num Silicate,Styene Polymer & CelluloseCAS# (Chemical Abstract Service):

MIXTURE-NA

SECTION 2 - HAZARDOUS INGREDIENT AND MAJOR COMPONENT INFORMATION

(See Section 11 for Complete Chemical Names)

EXPOSURE LIMITS (See Section 8 for Canadian Limits)

INGREDIENT:	Max.% By Wt.	Exposure Limits		
		OSHA	ACGIH	OTHER
CALCIUM SULFATE CAS# 07778-18-9	80.00	PEL: 15mg/m ³ -TWA as Total Dust 5mg/m ³ TWA as Respirable Dust	TLV: 10mg/m ³ -TWA	None Established
HYDROUS ALUMINUM SILICATE CAS# 08031-18-3	4.00	None Established	None Established	None Established
HYDROUS MAGNESIUM ALUMINUM Silicate CAS# 12174-11-7	4.00	None Established	None Established	None Established
LIMESTONE CAS# 01317-65-3	4.00	PEL: Total: 15 mg/m ³ Respirable: 5mg/m ³	TLV: Total: 10 mg/m ³	None Established
NUISANCE PARTICULATES CAS# N/A	0.00	PEL: Total: 15 mg/m ³ Respirable: 5mg/m ³	TLV: Total: 10 mg/m ³ Respirable: 3mg/m ³	None Established
SILICA, QUARTZ CAS# 14808-60-7	0.00	PEL: 0.1 mg/m ³ TWA as Respirable Dust	TLV: 0.1 mg/m ³ TWA as Respirable Dust	NIOSH: 50 ug/m ³ 10 hr-TWA as Silica

(0231z)

SECTION 3 - HAZARDS IDENTIFICATION**Emergency Overview:****Warning Statements:**

CAUTION! MAY CAUSE IRRITATION.

- ... Contains Calcium sulfate CAS# 7778-18-9 with less than 3% Quartz CAS# 14808-60-7, Limestone CAS# 1317-65-3, Hydrrous magnesium aluminum silicate CAS# 12174-11-7 or Hydrrous aluminum silicate CAS# 8031-18-3, Cellulose CAS# 65996-61-4 and Styrene polymer CAS# 9003-53-6.
- ... May be irritating if inhaled resulting in coughing and sneezing.
- ... Long-term overexposure to airborne dust may cause decreased lung function.
- ... May cause minor mechanical irritation to eyes. Direct contact with spray can damage eyes.
- ... Wet material falling on floors, stairs, or other surfaces will cause these surfaces to become slippery.
- ... Read and understand all Health and Safety information on the product Label and Material Safety Data Sheet before use.

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NPCA-HMIS Hazard Index:

- o Health: 1
- o Flammability: 0
- o Reactivity: 0
- o Personal Protection: B,E
(See Section 8)

Potential Health Effects**Routes of Exposure:****Inhalation:**

Exposure to excessive airborne dust may cause coughing, sneezing and dyspnea (shortness of breath, labored breathing). Long-term inhalation of dust may increase the risk of contracting pneumoconiosis ("dusty lungs"), and may also decrease lung function.

SECTION 3 - HAZARDS IDENTIFICATION (Cont'd)

Skin and Eye:

EYE contact with dust may cause minor mechanical irritation. Direct eye contact with MONOKOTE® may cause physical injury. Prolonged or repeated SKIN contact may dry skin.

Ingestion:

Not expected to be harmful.

Carcinogenicity Information:

OSHA - Not Applicable
IARC - Not Applicable
NTP - Not Applicable

SECTION 4 - FIRST AID MEASURES

EYE: In case of contact with eyes, immediately flush eyes with plenty of water. Do not rub eyes. If blinking or tearing persist, see a physician.

INHALATION: If inhaled, get fresh air. If symptoms of irritation occur and persist, consult a physician.

INGESTION: Adverse health effects are not expected if swallowed. Consult a physician if symptoms develop.

SKIN: In case of contact with skin, wash affected area with soap and water.

SECTION 5 - FIRE FIGHTING MEASURES

<u>Flash Point:</u> Not Applicable	<u>Flammable Limits:</u>	
<u>Method Used:</u> Not Applicable	LEL N/A	UEL N/A
<u>N.F.P.A. Rating:</u> Not Applicable		

Extinguishing Media

Not Applicable

Special Fire Fighting Procedures

None Known

Unusual Fire and Explosion Hazards

None Known

SECTION 6 - ACCIDENTAL RELEASE MEASURES

U.S. RELEASES

If spilled, prevent material from entering water systems. Observing the listed Precautionary Measures below:

- o Dry spills should be immediately swept up and placed in a suitable container to prevent further release of material.
- o Liquid spills should be immediately contained (to minimize the extent of the spill) and absorbed with an inert, non-combustible material. Place material in a suitable container to prevent further release.

CANADIAN RELEASES

Not Applicable

SECTION 7 - HANDLING AND STORAGE INFORMATION

Precautionary Measures:

- ... Avoid creating dust.
- ... Equip mixers with dust covers.
- ... Provide ventilation and/or respiratory protection.
- ... Wear eye protection to avoid contact with dust or spray.
- ... Post "Slippery When Wet" signs where appropriate.
- ... Use Antislip surfaces on working platforms.
- ... FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION/CANADIAN EXPOSURE LIMITS

Ventilation:

- Local Exhaust: Exhaust fans may be necessary when mixing in enclosed areas.
- Mechanical: Exhaust fans may be necessary when mixing in enclosed areas.
- Special: Not Applicable
- Other: Not Applicable

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Respiratory Protection:

Wear NIOSH-approved respiratory protection to prevent employee exposures from exceeding the limits specified in Section 2.

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION/CANADIAN EXPOSURE LIMITS (Cont'd)

Provincial Exposure Limits

Ingredients	ACGIH	ALBERTA	B.C.	ONTARIO	QUEBEC
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NOT APPLICABLE

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable Specific Gravity(H₂O=1) Not Applicable

Vapor Pressure (mm Hg.) Not Applicable % Volatiles Not Applicable

Vapor Density(AIR = 1) Not Applicable Evaporation Rate Not Applicable
(Butyl Acetate = 1)

Solubility in Water: Slight pH Approx. Neutral
Varies with water

Bulk Density (#/cu. ft): 12-16 PCF

Appearance and Odor: Coarse, free flowing off-white to grey powder.

Odor Threshold:
Not Determined

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal conditions (yes or no): YES

Conditions or Materials to avoid (which may react or cause instability):
Prior to welding or cutting, MONOKOTE® must be removed from steel surfaces in those immediate areas where exposure to excessive heat applied either directly or through conduction from cutting or welding operations is possible.

Hazardous Decomposition or Byproducts:

As a result of incomplete combustion, Monomers (C₈H₈) and various Polymers (C₈H₈) may be given off. Temperature in excess of 4000°F may generate Sulfur dioxide (SO₂). Upon complete combustion, Carbon monoxide and carbon dioxide are released.

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

Not Applicable

SECTION 11 - TOXICOLOGICAL INFORMATION

INGREDIENT (Chemical Name, CAS#, & Common Name)	TOXICITY DATA: LD ₅₀ & LC ₅₀ (See Section 2 for Exposure Limits)
Gypsum (Calcium Sulfate) CAS# 7778-18-9	No Toxicity Data Available
Quartz (Crystalline Silica) CAS# 14808-60-7	No Toxicity Data Available
Calcium Carbonate CAS# 1317-65-3	No Toxicity Data Available

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SECTION 12 - ECOLOGICAL INFORMATION

None Available At This Time

SECTION 13 - DISPOSAL CONSIDERATIONS**U.S. DISPOSAL**

Waste of this product is not defined as hazardous according to the U.S. EPA (40 CFR 261.3).

Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

CANADIAN DISPOSAL

Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

Transportation Hazard Classification

United States DOT

Canadian Regulations

PROPER SHIPPING: Not Applicable

TDG CLASS: Nonhazardous

NAME

HAZARD CLASS: Nonhazardous

IDENTIFICATION #: Not Applicable

LABEL(s) REQUIRED: Not Applicable

Surface Freight Classification: Wall Plaster

SECTION 15 - REGULATORY INFORMATION

(Not Meant To Be All Inclusive
Selected Regulations Represented)

SARA TITLE III REPORTING INFORMATION

Tier I & II HAZARD CATEGORIES:

IMMEDIATE (ACUTE) HEALTH

Contains Extremely Hazardous-SARA III Section 302 Ingredient: NO
Comments:

Contains Toxic Chemical Release-SARA III Section 313 Ingredient: NO
Comments:

Other Government Reporting Requirements:

CHEMICAL INVENTORY CERTIFICATION:

For U.S. Products ONLY

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.

For Canadian Products ONLY

All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

CALIFORNIA PROPOSITION 65 INFORMATION: WARNING: This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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Nonhazardous Ingredient Disclosure:

Cellulose Filler CAS# 65996-61-4 and Styrene polymer CAS# 9003-53-6.

SECTION 16 - OTHER INFORMATION

The information contained in this Material Safety Data Sheet is applicable to the following products:

Monokote® Type MK-6/HY

"THE DATA INCLUDED HEREIN ARE PRESENTED IN ACCORDANCE WITH VARIOUS ENVIRONMENT, HEALTH AND SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION."