



22383

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration  
DATE: September 6, 1978  
**MATERIAL SAFETY DATA SHEET**  
Required under USDL Safety and Health Regulations for Ship Repairing  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

**SECTION I**

|                                                                                                 |                |                                                              |
|-------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------|
| MANUFACTURER'S NAME<br>W. R. Grace & Co.                                                        |                | EMERGENCY TELEPHONE NO.<br>1-617-876-1400 X-457              |
| ADDRESS (Number, Street, City, State, and ZIP Code)<br>62 Whittemore Avenue-Cambridge, MA 02140 |                |                                                              |
| CHEMICAL NAME AND SYNONYMS<br>Lightweight Gypsum Plaster                                        |                | TRADE NAME AND SYNONYMS<br>MONOKOTE Fireproofing Type 4 or 5 |
| CHEMICAL FAMILY<br>Gypsum/Vermiculite Mixture                                                   | FORMULA<br>N/A |                                                              |

**SECTION II - HAZARDOUS INGREDIENTS**

MONOKOTE Fireproofing is formulated with Gypsum which may contain variable amounts of "Free Silica". Airborne dust may be created when the bagged fireproofing is dumped into the plaster mixer. A job site total dust sample may assay more than 1% free silica and require a reduction of the 15 Mg/M<sup>3</sup> total dust and 5 Mg/M<sup>3</sup> total respirable dust T.L.V. as provided in 29 CFR 1910.1000 - Table 2 - 3.

**SECTION III - PHYSICAL DATA**

|                                               |        |                                       |       |
|-----------------------------------------------|--------|---------------------------------------|-------|
| BOILING POINT (°F.)                           | N/A    | SPECIFIC GRAVITY (H <sub>2</sub> O=1) | N/A   |
| VAPOR PRESSURE (mm Hg.)                       | N/A    | PERCENT. VOLATILE BY VOLUME (%)       | N/A   |
| VAPOR DENSITY (AIR=1)                         | N/A    | EVAPORATION RATE (_____)              | N/A   |
| SOLUBILITY IN WATER                           | Slight | Bulk Density (pcf)                    | 12-15 |
| APPEARANCE AND ODOR Free flowing grey powder. |        |                                       |       |

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA Not Applicable**

|                                    |                  |     |     |
|------------------------------------|------------------|-----|-----|
| FLASH POINT (Measures used)        | FLAMMABLE LIMITS | LEL | UEL |
| EXTINGUISHING MEDIA                |                  |     |     |
| SPECIAL FIRE FIGHTING PROCEDURES   |                  |     |     |
| UNUSUAL FIRE AND EXPLOSION HAZARDS |                  |     |     |

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Total respirable dust of 5 Mg/M<sup>3</sup> and

Total dust of 15 Mg/M<sup>3</sup> reduced for free silica as required by 29 CFR 1910.1000

EMERGENCY AND FIRST AID PROCEDURES

## SECTION VI - REACTIVITY DATA W. A.

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS  
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WASTE DISPOSAL METHOD

Use disposal techniques which control airborne dust within the TLV limits of Section V above.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection - If TLV is exceeded, use disposal respirator Type TC - 21C - 132, 3M #8710 or similar disposable or reusable respirator.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

All applicator personnel, working in the job site mixing operation, must be instructed in bag opening and empty bag disposal procedures to minimize inhalation of airborne dust. Proper handling procedures can achieve compliance with the TLV in Section V.

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