

FILE NAME: Scotts (SCTS)

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DOCUMENT DESCRIPTION: Material Safety Data Sheet - Expanded  
South Carolina Vermiculite

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| U.S. DEPARTMENT OF LABOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                                                                                                           |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------|---------|
| DATE: July 19, 1977 Occupational Safety and Health Administration                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                                           |         |
| <b>MATERIAL SAFETY DATA SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                                                                                                           |         |
| Required under USDL Safety and Health Regulations for Ship Repairing<br>Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                                                                                                           |         |
| SECTION I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                  |                                                                                                           |         |
| MANUFACTURER'S NAME<br>W. R. Grace & Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  | Quality Assurance Manager                                                                                 |         |
| CHEMICAL NAME AND SYNONYMS<br>Expanded South Carolina Vermiculite                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  | TRADE NAME AND SYNONYMS<br>Industrial Vermiculite-Size #3 & #4                                            |         |
| CHEMICAL FAMILY<br>Magnesium Aluminosilicate Mineral                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  | FORMULA<br>(Mg,Ca,K)-(Al,Fe,Mg)-(Si,Al) <sub>4</sub> (O) <sub>10</sub> (OH) <sub>2</sub> H <sub>2</sub> O |         |
| SECTION II - HAZARDOUS INGREDIENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                                                                                           |         |
| Contains a naturally occurring mixture of amphibole contaminants; hornblende and tremolite. The predominant morphology of the contaminant is platy (non-fibrous). OSHA Regulation 1910.1001 defines tremolite as asbestos. Less than 5% of the contaminant is in a form which can be fibrillated by physical handling to release airborne "asbestos fibers". Regulation 1910.1001 places a limit of 2 "asbestos fibers"/cc; 8 hour time weighted average and a maximum of 10 "asbestos fibers"/cc at any one time for airborne fiber exposure. |                  |                                                                                                           |         |
| The physical handling given to expanded vermiculite can release both airborne fibers and nuisance dust. Extensive sampling of a wide variety of work stations has shown that airborne fiber levels are substantially lower than the Regulation 1910.1001 limits for permissible exposure.                                                                                                                                                                                                                                                      |                  |                                                                                                           |         |
| SECTION III - PHYSICAL DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                                                                                                           |         |
| BOILING POINT (°F.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NA               | SPECIFIC GRAVITY (H <sub>2</sub> O=1)                                                                     | NA      |
| VAPOR PRESSURE (mm Hg.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NA               | PERCENT VOLATILE BY VOLUME (%)                                                                            | NA      |
| VAPOR DENSITY (AIR=1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NA               | EVAPORATION RATE (____ #1)                                                                                | NA      |
| SOLUBILITY IN WATER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | slight, if any   | Bulk Density lbs./c.f.                                                                                    | 5-7     |
| APPEARANCE AND ODOR Free flowing dark brown to tan colored particles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                                                                                                           |         |
| SECTION IV - FIRE AND EXPLOSION HAZARD DATA NOT APPLICABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  |                                                                                                           |         |
| FLASH POINT (Method used)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLAMMABLE LIMITS |                                                                                                           | Let Uet |
| EXTINGUISHING MEDIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                                                                                                           |         |
| SPECIAL FIRE FIGHTING PROCEDURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                                                                                                           |         |
| UNUSUAL FIRE AND EXPLOSION HAZARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |                                                                                                           |         |

WRG 06769

PAGE (1)

(Continued on reverse side)

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## SECTION V - HEALTH HAZARD DATA

|                                    |                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------|
| THRESHOLD LIMIT VALUE              | Dust respirable fraction 5 mgm/M <sup>3</sup> . Total dust 15 mgm/M <sup>3</sup> . |
| EMERGENCY AND FIRST AID PROCEDURES | NA                                                                                 |

## SECTION VI - REACTIVITY DATA NOT APPLICABLE

|                                      |                |                     |
|--------------------------------------|----------------|---------------------|
| 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                                                 |
| Dampen slightly or use other techniques which control airborne dust within the limits of Section V above. |
| 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 STORAGE |
| OTHER PRECAUTIONS                               |

WRG 06770