

W R GRACE & CO. DAVISON CHEMICAL DIVISION -- FORMED MOLECULAR SIEVE;GRADE 514 --  
6850-00-851-8725

===== Product Identification =====

Product ID:FORMED MOLECULAR SIEVE;GRADE 514

MSDS Date:04/03/1991

FSC:6850

NIIN:00-851-8725

MSDS Number: BFSRH

=== Responsible Party ===

Company Name:W R GRACE & CO. DAVISON CHEMICAL DIVISION

Address:10 E BALTIMORE STREET

Box:2117

City:BALTIMORE

State:MD

ZIP:21202-16

30

Country:US

Info Phone Num:301-659-9000

Emergency Phone Num:301-659-9058(O)/301-874-2009(H)

CAGE:16210

=== Contractor Identification ===

Company Name:W R GRACE & CO. DAVISON CHEMICAL DIVISION

Address:10 E BALTIMORE STREET

Box:2117

City:BALTIMORE

State:MD

ZIP:21202-1630

Country:US

Phone:410-659-9000

CAGE:16210

===== Composition/Information on Ingredients =====

Ingred Name:SODIUM OXIDE

CAS:1313-59-3

Other REC Limits:NONE SPECIFIED

Ingred Name:CALCIUM OXIDE

CAS:1305-78-8

RTEC

S #:EW3100000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:5 MG/M3  
ACGIH TLV:2 MG/M3; 9192

Ingred Name:POTASSIUM OXIDE  
CAS:12136-47-7  
Other REC Limits:NONE SPECIFIED

Ingred Name:SILICA, AMORPHOUS, DUST  
CAS:112945-52-5  
RTECS #:VV7310000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:6 MG/M3  
ACGIH TLV:10 MG/M3; 8990

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS  
FORMS) (SARA III)  
CAS:1344-28-1  
RTECS #:BD1200000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10  
MG/M3 TDUST; 9293

Ingred Name:KAOLIN  
CAS:1332-58-7  
RTECS #:GF1670500  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:SILICA, CRYSTALLINE - FUSED  
CAS:60676-86-0  
RTECS #:VV7328000  
Fraction by Wt: 2-3%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:SEE TABLE Z3  
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50

Mixture:48-HOUR ORAL LD 50(RAT):>31,600 MG/KG  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:DUST MAY BE A PROBLEM;MAY IRRITATE OF EYES,SKIN,MUCOUS MEMBRANES AND RESPIRATORY TRACT.  
CHRONIC:IRRITATION,RESPIRATORY PROBLEM.  
Explanation of Carcinogenicity:CHRYSTALLINE SILICA IS LISTED UNDER IARC.  
Effects of Overexposure:INH:DUST DRIES NOSE/THROAT;EYES:IRRIT ON CONTACT;SKIN:PROLONGED CONTACT CAUSES IRRITATION.

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First Aid Measures =====

First Aid:EYES:FLUSH WITH PLENTY OF WATER FOR ABOUT 15 MINUTES;CONSULT A PHYSICIAN IMMEDIATELY IF NEEDED. SKIN:WASH WITH SOAP & WATER.  
INGESTION:MATERIAL WILL PASS THROUGH BODY NORMALLY;SEEK MEDICAL HELP IMMEDIATELY/INHALATION:REMOVE TO FRESH AIR.

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Fire Fighting Measures =====

Flash Point:NONE  
Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.  
Fire Fighting Procedures:NONE  
Unusual Fire/Explosion Hazard:NONE

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Accidental Release Measures =====

Spill Release Procedures:NEAR NIOSH APPROVED RESP & SAFETY GLASSES;SWEEP OR VACUUM THE SPILLED MATL.REUSE IF POSSIBLE.PLACE WASTE IN COVERED CONTAINER.

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Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED TO PROTECT PRODUCT QUALITY.  
Other Precautions:WHEN TRANSFERRING W/HIGH PRESSURE AIR,WEAR GOGGLES.CAN BUILD UP A STATIC ELECTRIC CHARGE WHEN POURING THEREFORE,GROUND DRUMS & EQUIPMENT.CAN BE FLAMMABLE WHEN MIXED W/PETROCHEMICALS.

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Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED RESPIRATOR TO AVOID DUST INHALATION.  
Ventilation:NO SPECIAL REQUIREMENTS W ADEQUATE VENT.  
Protective Gloves:THICK WORK GLOVES  
Eye Protection:SAFETY GLASSES  
Other Protective Equipment:NONE  
Work Hygienic Practices:WASH AFTER HANDLING

NDLING.  
Supplemental Safety and Health  
NONE

===== Physical/Chemical Properties =====

HCC:N1  
Spec Gravity:2.1  
pH:10.4  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:WHITE,GRAY,OR TAN BEADS,ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
REACTS WITH HF & STRONG ACIDS OR ALKALIES.  
Stability Condition to Avoid:HUMIDITY.  
Hazardous Decomposition Products:NONE

===== Disposal Con  
siderations =====

Waste Disposal Methods:SM & LG SPILL:DEPOSIT IN A POSTED TOXIC  
SUBSTANCE LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS

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