

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:21202-1630

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

RTECS #:EW3100000

Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3

AC

GIH 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 #:GF16
70500
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 Carcino

genicity: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.

===== 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 IMMEDI ATELY/INHALATION:REMOVE TO FRESH AIR.

===== 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

===== 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.

===== 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 ELETRIC CHARGE WHEN
POURING
THEREFORE,GROUND DRUMS & EQUIPMENT.CAN BE FLAMMABLE WHEN MIXED
W/PETROCHEMICALS.

===== Exposure Controls/Personal Protection =====

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

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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 Considerations =====

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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