

W R GRACE & CO. DAVISON CHEMICAL DIVISION -- FORMED MOLECULAR SIEVE --  
6850-01-300-8122

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

Product ID:FORMED MOLECULAR SIEVE

MSDS Date:10/01/1992

FSC:6850

NIIN:01-300-8122

MSDS Number: BSTZG

=== 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 P

hone Num:301-659-9000;301-659-9058

Emergency Phone Num:301-659-9000;301-874-2009

CAGE:16210

=== Contractor Identification ===

Company Name:AIR DRY CORP OF AMERICA

Address:5297 MAUREEN LN

Box:City:MOORPARK

State:CA

ZIP:93020

Country:US

Phone:805-529-6226

CAGE:01496

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 RECOMMENDED

Ingred Name:CALCIUM OXIDE  
CAS:1305-78-8  
RTECS #:EW3100000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:2 MG/M3; 9394

Ingred Name:SILICA GEL  
CAS:112945-52-5  
RTECS #:VV7310000  
Other REC Limits:NONE RECOMMENDED

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (SARA III)  
CAS:1344-28-1  
RTECS #:BD1200000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:  
KAOLIN  
CAS:1332-58-7  
RTECS #:GF1670500  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST;9394

Ingred Name:SILICA, CRYSTALLINE - FUSED  
CAS:60676-86-0  
RTECS #:VV7328000  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:10 MG/M3 RDUST; Z-3  
ACGIH TLV:0.1 MG/M3 RDUST;9394

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

Ingred Name:POTASSIUM OXIDE  
CAS:12136-45-7  
Other REC Limits:NONE RECOMMENDED

===== Hazards Identificat

ion =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:THE DRYING ACTION OF THIS MATERIAL CAN CAUSE IRRITATION OF THE MUCOUS MEMBRANES OF THE NOSE AND THROAT AND IRRITATION OF THE SKIN.  
Explanation of Carcinogenicity:SILICA IS LISTED BY NTP AS "MAY REASONABLY BE ANTICIPATED TO BE CARCINOGENS."  
Effects of Overexposure:IF A LARGE QUANTITY OF SIEVE QUICKLY ADSORBS THE EQUILIBRIUM AMOUNTS OF WATER, THE SIEVES CAN BECOME HOT ENOUGH TO CAUSE THERMAL BURNS OF THE SKIN.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid:EYES- IMMEDIATELY WASH FROM EYES WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING UPPER AND LOWER EYE LIDS. IF IRRITATION OCCURS AND PERSISTS, SEEK MEDICAL ATTENTION. SKIN- WASH WITH SOAP AND WATER. INGESTION- MATERIAL WILL PASS TH ROUGHBODY NORMALLY.  
INHALATION- REMOVE TO FRESH AIR.

===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE  
Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.  
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

===== Accidental Release Measures =====

Spill Release Procedures:SWEEP UP, TRYING NOT TO GENERATE DUST.

===== Handling and Storage =====

Handling and Storage Precautions:WHEN POURING INTO A CONTAINER OF FLAMMBLE LIQUID, GROUND BOTH CONTAINERS ELECTRICALLY TO PREVENT A STATIC ELECTRIC SPARK.  
Other Precautions:WILL RELEASE HEAT WHEN ABSORBING WATER.

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

Respiratory Protection:IF DUSTY CONDITIONS PREVAIL, USE OF AN APPROVED NIOSH/MSHA DUST MASK IS RECOMMENDED.  
Ventilation:USE WITH ADEQUATE VENTILATION.  
Protective Gloves:CLOSE-

WEAVE COTTON GLOVES W/ WRISTLETS

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:LONG SLEAVES.

Work Hygienic Practices:WASH AFTER HANDLING THIS MATERIAL.

Supplemental Safety and Health

NONE

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

HCC:N1

Spec Gravity:2.1

pH:10.4

Solubility in Water:INSOLUBLE

Appearance and Odor:WHITE, GRAY OR TAN BEADS. ODORLESS.

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

Stability Indicator/Materials to Avoid:YE

S

REACTS WITH HF AND STRONG ACIDS OR ALKALI.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

===== Disposal Considerations =====

Waste Disposal Methods:FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America i

n no manner whatsoever,

expressly or implied, warrants this information to be accurate and

disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and

assume responsibility for the suitability of this information to their

particular situation.