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W R GRACE & CO. DAVISON CHEMICAL DIVISION -- FORMED MOLECULAR SIEVE 544

6850-00-735-5371

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

Product ID: FORMED MOLECULAR SIEVE 544

MSDS Date:10/01/1992

FSC:6850

NIIN:00-735-5371

MSDS Number: BXBMC === 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;301-659-9058

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

Preparer's Name: J.H.CONVEY

CAGE:16210

=== Contractor Identification ===

Company Name: WR 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 O

XIDE

CAS:1305-78-8

RTECS #:EW3100000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:2 MG/M3; 9495

Ingred Name:POTASSIUM OXIDE

CAS:12136-45-7

RTECS #:TT3790000

Other REC Limits: NONE RECOMMENDED

Ingred Name: SILICA GEL

CAS:7631-86-9

RTECS #:VV7322000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:6 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name: ALPHA-ALUMINA (ALUMINUM OXIDE) (SARA 313)

CAS:1344-28-1

RTECS #:BD1200000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TD

UST; 9495

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; 9495

Ingred Name: SILICA, CRYSTALLINE - FUSED

CAS:60676-86-0 RTECS #:VV7328000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:SEE TABLE Z-3

ACGIH TLV:0.1 MG/M3 RDUST;9495

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Other REC Limits: NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV FOT TOTAL

DUST IS 5MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:EYES:MAY CAUSE IRRITATION.SKIN:MAY CAUSE IRRITATION AND DRYNESS.INGEST:MAY CAUSE GI TRACT IRRITATION.INHAL:MAY CAUSE RESPIRATORY IRRITATION.CHRONIC:THIS ITEM CONTAINS >3% QUARTZ,WHICH MAY CAUSE SILICO SIS(LUNG CANCER). Explanation of Carcinogenicity:QUARTZ IS IARC-2A AND NTP-AC.IT CAUSES LUNG CANCER. Effects of Overexposu re:SKIN:DRYNESS.WHEN TRANSFERRING BEADS WITH HIGH PRESSURE AIR,WEAR GOGGLES;BEADS ARE TRAVELING FAST ENOUGH TO PENETRATE SKIN. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.
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First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ART IFICIAL RESPIRATION IF NEEDED.INGEST:THIS ITEM WILL MOVE THR OUGH THE BODY NORMALLY.
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Flash Point:NONE Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. Unusual Fire/Explosion Hazard:THE FINELY DISPURSED DUST FROM THIS PRODUCT IS A FIRE OR EXPLOSION HAZARD IN THE PRESENCE OF SOURCES OF IGNITION.
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Spill Release Procedures:VENTILATE AREA.USE PROPER PROTECTIVE AND RESPIRATORY EQUIPMENT.SWEEP OR VACUUM;DO NOT CREATE DUST;PLACE IN A DRY CONTAINER FOR DISPOSAL.CLEAN SPILL AREA WITH WATER. Neutralizing Agent:NOT APPLICABLE.
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Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.AVOID DUSTING AN

D INCOMPATIBLE MATERIALS. Other Precautions: USE GOGGLES WHEN USING HIGH PRESSURE AIR TO TRANFER BEADS.GROUND BOTH CONTAINERS WHEN TRANSFERRING INTO A CONTAINER OF FLAMMABLE LIQUID.THIS MATERIAL RELEASES ENOUGH HEAT TO CAUSE BURN WHEN IT ABSORBS WATER. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR DUST. Protective Gloves: COTTON GLOVE WITH WRISTLETS. Eye Protection: DUST PROOF GOGGLES Other Protective Equipment: LONG-SLEEVED SHIRT. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER. Work Hygienic Practices: USE REASONABLE CARE IN HANDLING THIS PRODUCT.WASH HANDS AFTER USE AND BEFORE EATING. Supplemental Safety and Health USE CAUTION WHEN ADDING WATER TO THIS MATERIAL; IT RELEASES HEAT WHEN ABSORBING WATER. ========= Physical/Chemical Properties =========== HCC:N1 Spec Gravity:2.1 Solubility i n Water: COMPLETE Appearance and Odor:BEADS;WHITE,GRAY OR TAN;ODORLESS. ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES STRONG ACIDS, ALKALI, HYDROGEN FLUORIDE.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products: NOT REPORTED.

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

Waste Disposal Methods:LANDFILL OR DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULA

TIONS.AVOID CREATING DUST.

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