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W.R.GRACE & CO./DAVISON CHEMICAL DIVISION -- GRADES 542 AND 544(MOLECULAR SIEVE) -- 6850-00-865-2418

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

Product ID:GRADES 542 AND 544(MOLECULAR SIEVE)

MSDS Date:10/19/1987

FSC:6850

NIIN:00-865-2418

MSDS Number: BFTDP === Responsible Party ===

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

Address:10 E BALTIMORE ST

Box:2117 City:MD ZIP:21203

Info Phone Num:3

01-659-9000

Emergency Phone Num:301-659-9058 Preparer's Name:J.H.CONVEY,MGR

CAGE:MO123

=== 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

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

Address:10 E BALTIMORE ST

Box:2117 City:MD ZIP:21203

Phone:301-659-9000

CAGE:MO123

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

== Ingred Name: SODIUM ALUMINOSILICATE CAS:1344-00-9 Other REC Limits:5MG/CUM (RESP.DUST) OSHA PEL:5MG/CUM (RESP.DUST) ACGIH TLV:5MG/CUM (RESP.DUST) Ingred Name: CALCIUM SODIUM ALUMINOSILICATE CAS:1344-01-0 Other REC Limits:5MG/CUM (RESP.DUST) OSHA PEL:5MG/CUM (RESP.DUST) ACGIH TLV:5MG/CUM (RESP.DUST) Ingred Name: POTASSIUM SODIUM ALUMINOSILICATE CAS:12736-96-8 Other REC Limits:5MG/CUM (RESP.DUST) OSHA PEL:5MG/CUM (RESP.DUST) ACGIH TLV:5MG/CUM (RESP.DUST) ====== Hazards Identifi cation ========== LD50 LC50 Mixture:LD50 ORAL RAT=31600MG/KG Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: NO KNOWN HAZARDS IN RANGE NORMALLY ENCOUNTERED IN INDUSTRY. VERY LOW ORAL AND INHALATION TOXICITY. EYES:IRRITATION:SKIN:IRRITATION ON PROLONGED CONTACT; INHALATION: DRYING OF THE MUCOUS MEMBRANES OF THE NOSE AND THROAT. Effects of Overexposure: SEE HEALTH HAZARDS. I Cond Aggravated by Exposure: NONE NOTED. First Aid:EYES:IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER.GET MEDICAL ATTENTION IMMEDIATELY; SKIN: WASH WITH SOAP AND WATER; INHALATION: REMOVE TO FRESH AIR; INGESTION: MATERIAL WILL PASS THROUGH THE BODY NORMALLY.

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

Extinguishing Media: USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

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======= Accidental Release Measures ==========
Spill Release Procedures:VACUUM OR SWEEP UP.
============ Handling and Storage ==============
Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED.WHEN TRANSFERRING BEADED MOLECULAR SIEVES WITH HI PRESS.AIR,WEAR GOGGLES.GROUND TRANSFERRING & RECEIVING VESSELS. Other Precautions:MALFUNCTION OF EQUIPMENT CAN PROPEL BEADS WITH ENOUGH VELOCITY TO PENETRATE THE SKIN.MOL.SIEVES WILL RELEASE HEAT WH EN
ADSORBING WTR.IF A LG QUANTITY OF SIEVE QUICKLY ADSORBS WTR,THE SIEVES CAN BECOME HOT ENOUGH TO CAUSE SKIN BURNS.BEWARE!
===== Exposure Controls/Personal Protection ========
Respiratory Protection:IF DUSTY CONDITIONS DEVELOP,USE NIOSH-APPROVED RESPIRATOR.
Ventilation: AS REQUIRED TO CONTROL TLV IN AIR. Protective Gloves: CLOSE-WEAVE GLOVES W.TIGHT-FIT WRISTLETS Eye Protection: SAFETY GOGGLES.
Other Protective Equipment:WORK CLOTH COVERING ARMS,LEGS TO PREVENT PR
OLONGED SKIN CONTACT. Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING.REMOVE & LAUNDER CONTAMINATED CLOTHING. Supplemental Safety and Health
FOLLOWING CONTACT WITH TYPICAL PETROCHEMS OR GASES,MOLECULAR SIEVES MUST BE HANDLED WITH SPECIAL PRECAUTIONS.THE COMBINATION OF MOLECULAR SIEVES AND RETAINED MATERIAL CAN BE FLAMMABLE AND TOXIC.CARE S HOULD BE TAKEN TO AVOID IGNITION SOURCES AND PERSONAL CONTACT.
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HCC:N1 Spec Gravity:2.1 pH:10.4 Solubility in Water:NEGLIGIBLE Appearance and Odor:WHITE OR GRAY OR TAN BEADS,ODORLESS
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES HF,STRONG ACIDS OR ALKALI
======= Disposal Considerations ==========
Waste Disposal Methods:LANDFILL IAW FEDERAL,STATE & LOCAL REGULATIONS.COVER TO AVOID BLOWING OF DUST. USE APPROVED DISPOSAL METHODS SUITABLE FOR TOXIC WASTES.

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