View NSN Online: https://aerobasegroup.com/nsn/6850-00-851-8725

Product ID:FORMED MOLECULAR SIEVE,514 MSDS Date:06/02/1997 FSC:6850 NIIN:00-851-8725 MSDS Number: CGMWK === 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:U S Info Phone Num:410-659-9000 Emergency Phone Num:410-659-9058/301-874-2009(J.CONVEY) 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

Ingred Name:SODIUM OXIDE CAS:1313-59-3 Other REC Limits:NONE RECOMMENDED

Ingred Name:CALCIUM OXIDE CAS:1305-78-8 RTECS #:EW 3100000 Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3 ACGIH TLV:2 MG/M3; 9596

Ingred Name:POTASSIUM OXIDE CAS:12136-45-7 RTECS #:TT3790000 Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICA (SYNTHETIC)/SILICA GEL CAS:112945-52-5 RTECS #:VV7310000 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 TDUST; 959 6

Ingred Name:CLAY/KAOLIN CAS:1332-58-7 RTECS #:GF1670500 Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:2 MG/M3 TDUST; 9596

Ingred Name:SILICA, CRYSTALLINE - QUARTZ CAS:14808-60-7 RTECS #:VV7330000 Fraction by Wt: 3% MAX Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE TABLE Z-3 ACGIH TLV:0.1 MG/M3 RDUST;9596

LD50 LC50 Mixture:LD50 (ORAL, RAT) >31,600 MG/KG (EST.) Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY TRACT. ACUTE- MOLECULAR SIEVES ARE NON-FIBROUS, SYNTHETIC ALUMINOSILICATES. THEY DO NOT CAUSE SIGNIFICANT HEALTH PROBLEMS. WHEN ACTIVATED, MAY CAUSE A DRYING IRRIT ATION OF MUCOUS MEMBRANES AND SKIN IN CASE OF SEVERE EXPOSURE. CHRONIC- MAY CAUSE SILICOSIS OR FIBROTIC LUNG DISEASE. Explanation of Carcinogenicity:CONTAINS QUARTZ. Effects

of Overexposure:IRRITATION, COUGH, TEARING, REDNESS Medical Cond Aggravated by Exposure:NONE

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH AIR. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP AND WATER. ORAL:RINSE OUT MOUTH WITH WATER. MA TERIAL WILL PASS THROUGH BODY NORMALLY.

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ash Point:NONE

Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. IN CONTACT WITH WATER IT BECOMES HOT AND CAN CAUSE THERMAL BURNS OF THE SKIN. Unusual Fire/Explosion Hazard:NONE

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

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Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. CAREFULLY SWEEP OR VACUUM THE SPILL AREA. COLLECT AND PLACE THE SPILLED MATERIAL IN A WASTE DISPOSAL CONTAINER FOR DISPOSAL. AVOID DUSTING. Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:STORE IN DRY PLACE, IN TIGHTLY CLOSED CONTAINER, AWAY FROM INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN. Other Precautions:WEAR GOGGLES IF DUST CAUSE S EYE DISCOMFORT. WEAR A PROPERLY FITTED NIOSH-APPROVED DUST RESPIRATOR FOR DUSTY CONDITIONS. USE WITH ADEQUATE VENTILATION. AVOID CONTACT WITH EYES AND SKIN. AVOID INHALING DUST. PH IN 5% SLURRY: 10.3 - 10.5 Respiratory Protection: IF ENGINEERING CONTROLS ARE INADEQUATE TO CONTROL DUST CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED DUST RESPIRATOR SHOULD BE WORN. IF RESPIRATORS ARE USED, A PRO GRAM SHOULD BE INSTITUTED T O COMPLY WITH OSHA 29CFR 1910.134. Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP DUST LEVELS AS LOW AS POSSIBLE. Protective Gloves: COTTON/RUBBER/LATEX RECOMMENDED Eye Protection: SAFETY GOGGLES FOR DUSTY CONDITIONS Other Protective Equipment: LONG SLEEVE WORK CLOTHING, EYE WASH FOUNTAIN Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING OR DRINKING. Supplement al Safety and Health FORMULA CHANGED. FOR PREVIOUS FORMULATIONS, SEE PNI A-C, SAME NSN. HCC:N1 NRC/State Lic Num:NOT RELEVANT Spec Gravity:2.1 Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT Solubility in Water: INSOLUBLE Appearance and Odor:WHITE, GRAY OR TAN BEADS - ODORLESS Stability Indicator/Materials to Avoid:YES HYDROFLUORIC ACID, STRONG ACIDS, STRONG ALKALIS Stability Condition to Avoid:NONE

Waste Disposal Methods:LANDFILL IN ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REUSING OR RECYCLING IS RECOMMENDED.

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