

M 542 MOLECULAR SIEVE

MSDS Number

BRQRW

National Stock Number

3655-01-155-0469

Product Name

M 542 MOLECULAR SIEVE

Manufacturer

FISHER SCIENTIFIC CHEMICAL DIV

Product Identification

Product ID:M 542 MOLECULAR SIEVE

MSDS Date:04/28/1995

FSC:3655

NIIN:01-155-0469

MSDS Number: BRQRW

Responsible Party

FISHER SCIENTIFIC, CHEMICAL DIV.

1 REAGENT LANE

FAIR LAWN , NJ 07410

US

Emergency Phone: 201-796-7100/800-424-9300(CHEMTREC)

Info Phone: 201-796-7100

Cage: 1B464

Contractor

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

FAIRLAWN, NJ 07410-2802

US

201-796-7100

Cage: 1B464

Ingredients

CLAY (KAOLIN) (INGREDIENTS 2-5 MAKE UP THIS CLAY)

CAS: 1332-58-7

RTECS: GF1670500

Fraction By Weight: 100.0%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST; 9495

SODIUM ALUMINOSILICATE

CAS: 1344-00-9

Fraction By Weight: 0 - 100%

CALCIUM SODIUM ALUMINOSILICATE

CAS: 1344-01-0

Fraction By Weight: 0 - 100%

POTASSIUM SODIUM ALUMINOSILICATE

CAS: 12736-96-8

Fraction By Weight: 0 - 100%

SILICA, CRYSTALLINE - QUARTZ

CAS: 14808-60-7

RTECS: VV7330000

Fraction By Weight: 0 - 3.0%

OSHA PELSEE TABLE Z-3

ACGIH TLV: 0.1 MG/M3 RDUST;9495

Hazards

LD50 LC50 Mixture:TLV FOR QUARTZ IS 0.1 MG/M3 (RDUST).

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION MAY CAUSE

RESPIRATORY IRRITATION. CONTACT MAY CAUSE SKIN AND EYE IRRITATION;

EYE BURNS/INJURY. INGESTION MAY CAUSE BURNS TO MUCOUS MEMBRANES OF

MOUTH/THROAT/ESOPHAGUS. CHRONIC: PROLONGED OR REPEATED EXPOSURE

MAY CAUSE CANCER, FIBROSIS OF THE LUNG, EYE INJURY, CONSTIPATION.

Explanation of Carcinogenicity:IARC AND NTP LIST CRYSTALLINE SILICA

(QUARTZ) AS A SUSPECTED CARCINOGEN.

Effects of Overexposure:INHALED-COUGHING, SNEEZING, WHEEZING, SHORTNESS

OF BREATH. EYES-TEARING, REDNESS, DISCOMFORT, BURNS, PAIN,

SLOUGHING OF CORNEA. SKIN-REDNESS, SWELLING, ITCHING.

INGESTED-BURNS/PAIN TO MOUTH/THROAT/STOMACH, DIFFICULTY

SWALLOWING.

Medical Condition Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY

FUNCTION. SMOKING TOBACCO PRODUCTS MAY ENHANCE THE TOXIC EFFECTS.

First Aid

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN-REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER. EYE-FLUSH WITH WATER FOR 15 MINUTES, HOLD LIDS OPEN. INHALED-REMOVE TO FRESH AIR.

INGESTED-DO NOT USE GASTRIC LAVAGE OR EMESIS. DILUTE IMMEDIATELY BY DRINKING LARGE AMOUNT OF WATER OR MILK. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS. GET MEDICAL ATTENTION IMMEDIATELY.

Fire Fighting

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:NO ACUTE HAZARD. MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. AVOID BREATHING VAPORS OR DUSTS. KEEP UPWIND.

Unusual Fire/Explosion Hazard:NEGLECTIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

Accidental Release

Spill Release Procedures:VACUUM OR SWEEP UP SPILLAGE. AVOID CREATING DUST. PLACE SPILLAGE IN APPROPRIATE CONTAINER FOR RECLAMATION OR WASTE DISPOSAL. VENTILATE AREA AND WASH SPILL SITE. DO NOT FLUSH SPILLED MATERIAL INTO SEWER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY SEALED TO PROTECT PRODUCT QUALITY. KEEP AWAY FROM INCOMPATIBLE MATERIALS AND MOISTURE.

Other Precautions: AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING DUST. WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN.

Exposure Controls

Respiratory Protection: NONE NORMALLY REQUIRED. IF DUSTY CONDITIONS PREVAIL, A NIOSH APPROVED AIR SUPPLIED RESPIRATOR OR DUST RESPIRATOR IS ADVISED.

Ventilation: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves: RUBBER OR PLASTIC RECOMMENDED

Eye Protection: DUST-RESISTANT SAFETY GOGGLES

Other Protective Equipment: EYE WASH STATION, EMERGENCY SHOWER, APPROPRIATE LABORATORY COAT TO COVER EXPOSED SKIN

Work Hygienic Practices: DO NOT PERMIT EATING, DRINKING OR SMOKING NEAR THIS MATERIAL. WASH THOROUGHLY BEFORE EATING/DRINKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A UNDER THE SAME NSN. WHEN POURING INTO A CONTAINER OF FLAMMABLE LIQUID, GROUND BOTH CONTAINERS ELECTRICALLY. WILL RELEASE HEAT WHEN ADSORBING WATER. THE SIEVES CAN BECOME HOT ENOUGH TO CAUSE THERMAL BURNS OF THE SKIN.

Chemical Properties

HCC: B3

Spec Gravity: 2.1

pH: 10.5

Solubility in Water: NEGLIGIBLE

Appearance and Odor: WHITE, GRAY OR TAN BEADS - ODORLESS (PH: 10.3 - 10.5, 5% SLURRY)

Stability

Stability Indicator/Materials to Avoid: YES

STRONG ACIDS, STRONG BASES

Stability Condition to Avoid: STABLE UNDER NORMAL TEMPERATURES AND PRESSURES. REACTS EXOTHERMICALLY WITH MOISTURE.

Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY RELEASE ACRID SMOKE AND IRRITATING FUMES.

Disposal

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECOMMENDED METHOD IS BY LANDFILL. COVER TO AVOID BLOWING OF DUST. USED MOLECULAR SIEVES MAY CONTAIN FLAMMABLE AND/OR TOXIC CHEMICALS. USE APPROVED DISPOSAL METHODS FOR TOXIC WASTE.

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