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## **MOLECULAR SIEVE TYPE 4ADG**

### **MSDS Number**

BHCFY

### **National Stock Number**

6850-00-351-1188

### **Product Name**

MOLECULAR SIEVE TYPE 4ADG

### **Manufacturer**

UNION CARBIDE CORP MOLECULAR SIEVES DEPT

### **Product Identification**

Product ID:MOLECULAR SIEVE TYPE 4ADG

MSDS Date:08/01/1984

FSC:6850

NIIN:00-351-1188

MSDS Number: BHCFY

### **Responsible Party**

UNION CARBIDE CORP. MOLECULAR SIEVES DEPT.

OLD RIDGEBURY ROAD

DANBURY , CT 06817

Emergency Phone: 304-744-3487

Info Phone: 304-744-3487

Cage: 7U619

### **Contractor**

UNION CARBIDE CORP. MOLECULAR SIEVES DEPT.

DANBURY, CT 06817

304-744-3487

Cage: 7U619

### **Ingredients**

SODIUM OXIDE

CAS: 1313-59-3

Fraction By Weight:

SILICA, CRYSTALLINE - QUARTZ

CAS: 14808-60-7

RTECS: VV7330000

Fraction By Weight:

OSHA PELSEE TABLE Z3

ACGIH TLV: 0.1 MG/M3 RDUST;9293

ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS

CAS: 1344-28-1

RTECS: BD1200000

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST; 9293

## Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: EYE, SKIN & RESPIRATORY TRACT IRRITATION. CHRONIC: THE DRYING ACTION OF THIS MATERIAL CAN CAUSE IRRITATION OF THE MUCOUS MEMBRANES OF THE NOSE AND THROAT AND IRRITATION OF THE SKIN. AVOID PROLONGED BREATHING OF THE DUST OR CONTACT OF DUST WITH THE SKIN.  
Explanation of Carcinogenicity:THIS PRODUCT AND ITS COMPONENTS ARE NOT LISTED ON THE IARC, NTP OR OSHA CARCINOGENS LISTS.  
Effects of Overexposure:MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION.  
Medical Cond Aggravated by Exposure:MANUFACTURER KNOWS OF NO MEDICAL CONDITIONS ABNORMALLY AGGRAVATED BY EXPOSURE.

## First Aid

First Aid:EYES: IMMEDIATELY WASH FROM EYES WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING THE UPPER & LOWER EYE LIDS. IF IRRITATION OCCURS AND PERSISTS, SEEK MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER . INGESTION: MATERIAL WILL PASS THROUGH THE BODY NORMALLY. INHALATION: REMOVE TO FRESH AIR. IF ANY IRRITATION OR SYMPTOMS PERSIST, SEE A PHYSICIAN.

## Fire Fighting

Flash Point:DOES NOT BURN  
Lower Limits:NOT APPLICABLE  
Upper Limits:NOT APPLICABLE  
Extinguishing Media:UNULSED MATERIAL WILL NOT BURN. USE MEDIA APPROPRIATE FOR THE SURROUNDING FIRE.  
Fire Fighting Procedures:DEPENDS ON THE USE OF THE MATERIAL. USED MATERIAL MAY CONTAIN PRODUCTS OF A HAZARDOUS NATURE. THE USER OF THIS PRODUCT MUST IDENTIFY THE HAZARDS.  
Unusual Fire/Explosion Hazard:IN THEIR FRESH UNUSED STATE, MOLECULAR SIEVES ARE NOT FLAMMABLE. WHEN EXPOSED TO WATER, HOWEVER, THEY CAN GET QUITE HOT. FLOODING WILL REDUCE TEMP. TO SAFE LIM.

## Accidental Release

Spill Release Procedures:SWEEP THE SPILL AREA. COLLECT AND PLACE THE SPILLED MATERIAL IN A WASTE DISPOSAL CONTAINER. AVOID RAISING DUST.  
Neutralizing Agent:NONE REQUIRED

## Handling

Handling and Storage Precautions:AVOID PROLONGED BREATHING OF THE DUST OR CONTACT OF DUST WITH THE SKIN. WHEN HANDLING, WEAR LONG SLEEVES AND CLOSE-WEAVE COTTON GLOVES WITH WRISTLETS.  
Other Precautions:WEAR GOGGLES IF DUST CAUSES EYE DISCOMFORT. WEAR A PROPERLY FITTED NIOSH-APPROVED DUST RESPIRATOR FOR DUSTY CONDITIONS. BE AWARE OF THE MATERIAL PRESENT ON THE DESSICANT IF THE MATERIAL IS USED.

## Exposure Controls

Respiratory Protection:WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED DUST RESPIRATOR IF CONDITIONS ARE DUSTY.  
Ventilation:MECHANICAL(GENERAL) VENTILATION IS USUALLY ADEQUATE TO MAINTAIN DUST LEVELS BELOW TLV FOR NUISANCE DUST.  
Protective Gloves:CLOSE-WEAVE COTTON WITH TIGHT WRISTLETS  
Eye Protection:GOGGLES FOR DUSTY CONDITIONS  
Other Protective Equipment:LONG SLEEVED WORK CLOTHING. EYEWASH FOUNTAIN.  
Work Hygienic Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING, DRINKING OR SMOKING. VACUUM UP ANY DUST. LAUNDRER CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
YOU SHOULD KNOW AND FOLLOW ALL THE SAFETY PRECAUTIONS RELATED TO THE ADSORBED PRODUCTS.

## Chemical Properties

HCC:N1  
Boiling Pt:B.P. Text:NOT APPLICE  
Vapor Pres:NOT APPLIE  
Vapor Density:NOT APPLIE  
Spec Gravity:1.1  
Appearance and Odor:DEPENDING ON PRODUCT MAY APPEAR AS BEAD, MESH, CAKE OR POWDER; ODORLESS.  
Percent Volatiles by Volume:NOT AE

## Stability

Stability Indicator/Materials to Avoid:YES  
SUDDEN CONTACT WITH HIGH CONCENTRATIONS OF CHEMICALS HAVING HIGH HEATS OF ADSORPTION SUCH AS OLEFINS, HCL, ETC.  
Stability Condition to Avoid:MOISTURE(WATER) CAN CAUSE RISE IN TEMPERATURE WHICH MAY RESULT IN BURN.  
Hazardous Decomposition Products:NONE. MATERIALS MAY BE RETAINED ON THE SIEVE WHICH MAY THEN DECOMPOSE.

## Disposal

Waste Disposal Methods:DISPOSE IN AN APPROVED LANDFILL ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS. COVER PROMPTLY TO AVOID BLOWING DUST.

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