

UOP, MOLECULAR SIEVE DEPT -- MOLECULAR SIEVE TYPE 5A -- 6850-00-689-6438

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Product Identification
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Product ID:MOLECULAR SIEVE TYPE 5A

MSDS Date:01/01/1990

FSC:6850

NIIN:00-689-6438

MSDS Number: BXBLZ

=== Responsible Party ===

Company Name:UOP, MOLECULAR SIEVE DEPT

Address:308 HARPER DRIVE

City:MOORESTOWN

State:NJ

ZIP:08057

Country:US

Info Phone Num:609-778-6283

Emergency Phone Num:609-778

-6283, CHEMTREC 800-424-9300

CAGE:0H8X3

=== Contractor Identification ===

Company Name:METADURE CORP

Address:17 VALLEY RD

Box:106

City:BUTLER

State:NJ

ZIP:07405-1707

Country:US

CAGE:56190

Company Name:UOP, MOLECULAR SIEVE DEPT

Address:308 HARPER DRIVE

Box:City:MOORESTOWN

State:NJ

ZIP:08057

Country:US

Phone:609-778-6283, CHEMTREC 800-424-9300

CAGE:0H8X3

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Composition/Information on Ingredients
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Ingred Name:SODIUM OXIDE

CAS:1313-59-3

Fraction by Wt: < 15% %

Other REC L

imits:NONE SPECIFIED

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS FORMS) (SARA III)

CAS:1344-28-1

RTECS #:BD1200000

Fraction by Wt: < 40% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:SILICA GEL

CAS:112945-52-5

RTECS #:VV7310000

Fraction by Wt: < 50% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:6 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST

Ingred Name:SILICA, CRYSTALLINE - QUARTZ

CAS:14808-60-7

RTECS #:VV7330000

Fraction

by Wt: < 1% %

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE TABLE Z3

ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:CALCIUM OXIDE

CAS:1305-78-8

RTECS #:EW3100000

Fraction by Wt: < 20% %

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:2 MG/M3; 9192

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:PRODUCT GETS HOT AS IT ABSORBS

RBS WATER.

BURNS TO MOIST BODY TISSUES CAN RESULT. NOSE/THROAT IRRITATION, SKIN IRRITATION, EYE IRRITATION.

Explanation of Carcinogenicity:CRYSTALLINE SILICA IS CLASSIFIED AS "2A" (PROBABLY CARCINOGENIC TO HUMANS) BY IARC.

Effects of Overexposure:COUGH CHEST DISCOMFORT, LOCAL REDNESS ON SKIN AND/OR BURNS, EXCESS REDNESS OF THE CONJUNTIVA OF THE EYE, IRRITATION OF THE NOSE & THROAT, LUNG DAMAGE.

Medical Cond Aggravated by Exposure:BREATHING OF DUST MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIROTIC PULMONARY DISEASE.

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===== First Aid Measures =====

First Aid:SWALLOWING: IF INGESTED IN LARGE QUANTITIES, DRINK 2 GLASSES OF WATER. CONTACT PHYSICIAN FOR PERMISSION TO INDUCE VOMITING. SKIN CONTACT: WASH CONTAMINATED AREA WITH SOAP AND WATER. INHALATION: REMOVE THE PERSON TO FRESH AIR. EYE CONTACT: FLUSH EYES WITH WATER FOR 15 MINUTES. NOTES TO PHYSICIAN: THE USED PRODUCT CAN CONTAIN MATERIAL OF A HAARDOUS NATUR

E. IDENTIFY MATERIAL AND TREAT SYMPTOMATICALLY

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

Flash Point:NONFLAMMABLE

Extinguishing Media:UNUSED MATERIAL DOES NOT BURN. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:DEPENDS ON THE USE OF THE MATERIAL MAY CONTAIN PRODUCTS OF A HAZARDOUS NATURE. THE USER OF THIS PRODUCT MUST IDENTIFY THE HAZARDS OF THE RETAINED MATERIAL.

Unusual Fire/Explosion Hazard:IN THEIR FRESH, UNUSED STATE, MOLECU LAR

SIEVES ARE NOT FLAMMABLE. WHEN EXPOSED TO WATER (MOISTURE) THEY CAN GET QUITE HOT. FLOODING WILL REDUCE TEMPERATURES.

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

Spill Release Procedures:SWEEP THE SPILL AREA. COLLECT AND PLACE THE SPILLED MATERIAL IN A WASTE DISPOSAL CONTAINER. AVOID RAISING DUST.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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===== Handling and Storage =====

Handling and Storage Precautions:STORE

IN A COOL, DRY AREA. AVOID
MOISTURE. KEEP CONTAINER CLOSED WHEN NOT IN USE.
Other Precautions:OPEN CONTAINER SLOWLY. AVOID CONTACT WITH EYES AND
SKIN. AVOID BREATHING DUST. USE WITH ADEQUATE VENTILATION.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:A NIOSH/MSHA APPROVED RESPIRATOR FOR PROTECTION
AGAINST DUST, MIST AND VAPOR IS RECOMMENDED FOR OPERATIONS WHEN THE
PERMISSIBLE EXPOSURE LIMIT MIGHT BE EXCEEDED.

Ventilation:LOCAL EXHAUS
T VENTILATION IS RECOMMENDED FOR OPERATIONS
WHERE THE PEL MIGHT BE EXCEEDED.

Protective Gloves:USE GLOVES TO AVOID PROLONGED SKIN CNTCT

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:EMERGENCY EYEWASH AND SHOWER.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT
AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health

SELECT PROTECTIVE EQUIPMENT IN ACCORDANCE WITH OSHA REGULATIONS -- 29
CFR 1910.132 AND 1910.133

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=== Physical/Chemical Properties =====

HCC:V7

Spec Gravity:1.1

Appearance and Odor:PRODUCT MAY APPEAR AS A BEAD, PELLETT, MESH, CAKE OR
POWDER; ODORLESS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CHEMICALS HAVING HIGH HEATS OF ABSORPTION SUCH AS OLEFINS, HCL, ETC.

Stability Condition to Avoid:THE ADDITION OF WATER (MOISTURE) WITHOUT
FLOODING CAN CAUSE RISE IN TEMPERATURE FROM HEAT OF ABSORPTION.

Hazardo

us Decomposition Products:SODIUM OXIDE, ALUMINUM OXIDE, SILICON

OXIDE, AND DECOMPOSITION PRODUCTS FROM ANY RETAINED MATERIAL ON THE
SIEVE.

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

Waste Disposal Methods:DISCARD ANY PRODUCT (INCLUDING ANY RETAINED
MATERIALS OF USE) IN DISPOSABLE CONTAINER OR LINER IN AN
ENVIRONMENTALLY ACCEPTABLE MANNER IN FULL COMPLIANCE WITH FEDERAL,
STATE AND LOCAL REGULATIONS.

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