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

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

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

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

========= 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 ABSO

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.
======================================
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 SYMPTOMATICALY
============ 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.
======== 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.
============= 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
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, PELLET, 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

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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