

UOP MOLECULAR SIEVE DIVISION -- MOLECULAR SIEVE TYPE 5A -- 6850-00-926-9155

===== Product Identification =====

Product ID:MOLECULAR SIEVE TYPE 5A

MSDS Date:02/01/1997

FSC:6850

NIIN:00-926-9155

Status Code:A

MSDS Number: CJTTZ

=== Responsible Party ===

Company Name:UOP MOLECULAR SIEVE DIVISION

Address:25 EAST ALGONQUIN ROAD

Box:5017

City:DES PLAINES

State:IL

ZIP:60017-5017

Country:US

Info Phone Num:847-391-3189

Emergency Phone Num:847-391-2123

Resp. Party Other

MSDS Num.:MSDS REVISION NUMBER 7

Chemtec Ind/Phone:(800)424-9300

CAGE:LO415

=== Contractor Identification ===

Company Name:SUD-CHEMIE INC/SUB CHEMIE PERFORMANCE PACKAGING DIV

Address:926 SOUTH 8TH ST (FORMALLY HUMIDIAL)

Box:610

City:COLTON

State:CA

ZIP:92324-0610

Country:US

Phone:909-825-1793

Contract Num:SP0450-00-M-D130

CAGE:00334

Company Name:UOP MOLECULAR SIEVE DIVISION

Address:25 EAST ALGONQUIN ROAD

Box:5017

City:DES PLAINES

State:IL

ZIP:60017-5017

Country:US

Phone:847-391-3189

CAGE:LO415

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

Ingred Name:SILICON OXIDE (SYNTHETIC)

CAS:7631-86-9

&lt; Wt:65.

Other REC Limits:NOT PROVIDED.

OSHA PEL:15 MG/M3 (TDUST)

OSHA STEL:5 MG/M3 RESP.

ACGIH TLV:10 MG/M3 (TDUST)

ACGIH STEL:5 MG/M3 RESP.

Ingred Name:ALUMINUM OXIDE (NON-FIBROUS)

CAS:1344-28-1

RTECS #:BD1200000

&lt; Wt:40.

Other REC Limits:NOT PROVIDED.

OSHA PEL:15 MG/M3 (TDUST)

OSHA STEL:5 MG/M3 RESP.

ACGIH TLV:10 MG/M3

Ingred Name:SODIUM OXIDE

CAS:1313-59-3

&l

t; Wt:20.

Other REC Limits:NOT PROVIDED.

Ingred Name:CALCIUM OXIDE

CAS:1305-78-8

RTECS #:EW3100000

&lt; Wt:20.

Other REC Limits:NOT PROVIDED.

OSHA PEL:5 MG/M3

ACGIH TLV:2 MG/M3

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

LD50 LC50 Mixture:NOT AVAILABLE

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

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

Health Hazards Acute and Chronic:POTENTIAL HEALTH EFFECTS: SKIN

CONTACT:THE PRODUCT DUST MAY DRY THE SKIN

. THIS MATERIAL BECOMES  
HOT WHEN IT FIRST COMES INTO CONTACT WITH MOISTURE AND COULD CAUSE  
THERMAL BURNS. EYE CONTACT: DUST AND/ OR PRODUCT MAY CAUSE EYE  
DISCOMFORT AND/OR IRRITATION SEEN AS TEARING AND REDDENING.  
INGESTION:THE PRODUCT GETS HOT AS IT ADSORBES WATER. BURNS TO MOIST  
BODY TISSUE CAN RESULT IF CONTACT IS PROLONGED. INHILATION:  
INHILATION OF PRODUCT AND/OR DUST MAY CAUSE IRRITATION TO THE  
RESPIRATORY TRACT. IRRITATION MAY BE ACCOMPANIED BY COUGHING AND  
  
CHEST DISCOMFORT.

Explanation of Carcinogenicity:NOT PROVIDED.

Effects of Overexposure:SKIN CONTACT:THE PRODUCT DUST MAY DRY THE SKIN.  
THIS MATERIAL BECOMES HOT WHEN IT FIRST COMES INTO CONTACT WITH  
MOISTURE AND COULD CAUSE THERMAL BURNS. EYE CONTACT: DUST AND/OR  
PRODUCT MAY CAUSE EYE D ISCOMFORT AND/OR IRRITATION SEEN AS TEARING  
AND REDDENING. INGESTION:THE PRODUCT GETS HOT AS IT ADSORBES WATER.  
BURNS TO MOIST BODY TISSUE CAN RESULT IF CONTACT IS PROLONGED.  
INHILATIO  
N: INHILATION O F PRODUCT AND/OR DUST MAY CAUSE IRRITATION  
TO THE RESPIRATORY TRACT. IRRITATION MAY BE ACCOMPANIED BY COUGHING  
AND CHEST DISCOMFORT.

Medical Cond Aggravated by Exposure:NOT PROVIDED.

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

First Aid:SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. EYE  
CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. INGESTION: DRINK  
AT LEAST 2 GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. INHILATION:  
REMOVE  
AFFECTED PERSON TO FRESH AIR. IF RESPIRATORY PROBLEMS  
DEVELOP, OBTAIN MEDICAL ATTENTION. NOTE TO PHYSICIAN:THIS PRODUCT  
IS A DESICCANT AND GENERATES HEAT AS IT ADSORBES WATER. THE USED  
PRODUCT CAN CON TAIN MATERIAL OF A HAZARDOUS NATURE. IDENTIFY THAT  
MATERIAL AND TREAT SYMPTOMATICALLY.

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

Flash Point:NON COMBUSTIBLE  
Extinguishing Media:UNUSED MATERIAL WILL NOT BURN. USE MEDIA  
APPROPRIATE FOR SURROUNDING FIR

E.  
Fire Fighting Procedures:NOT PROVIDED.

Unusual Fire/Explosion Hazard:USED MATERIAL MAY CONTAIN MATERIALS OF A  
HAZARDOUS NATURE. THE USER OF THIS PRODUCT MUST IDENTIFY THE  
HAZARDS OF THE RETAINED MATERIAL AND INFORM THE FIRE FIGHTERS OF  
THESE HAZARDS.

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

Spill Release Procedures:ISOLATE THE AFFECTED AREAS. CONFINE ENTRY INTO  
THE AFFECTED AREA TO THOSE PERSONS PROPERLY PROTECTED. SPECIAL  
ATTENTION SHOULD BE G  
IVEN TO EYE, SKIN AND RESPIRATORY PROTECTION  
BECAUSE RECOVERY OF DRY PRODUCT IS EXPECTED TO GENERATE DUST.  
SWEEP, SHOVEL OR VACUUM SPILLED PRODUCT INTO APPROPRIATE CONTAINERS  
(DO NOT USE A VACUUM IF MATERIAL HAS CONTACTED A HYDROCARBON  
MATERIAL).

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:STORE IN TIGHTLY CLOSED, PROPERLY  
LABELED CONTAINERS. A COPY OF UOP'S BOOKLET, "PRECAUTIONS AN  
D SAFE  
PRACTICES FOR HANDLING MOLECULAR SIEVES IN PROCESS UNITS," M-1001,  
CAN BE OBTAINED FROM YOUR UOP RE PRESENTATIVE AT NO COST.

Other Precautions:NOT PROVIDED.

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

Respiratory Protection:WHERE NATURAL VENTILATION IS INADEQUATE, USE  
MECHANICAL VENTILATION, OTHER ENGINEERING CONTROLS, OR A TOXIC DUST  
RESPIRATOR(IN USA-NIOSH/MSHA APPROVED) TO PREVENT INHILATION OF  
PRODUCT DUST.

Ventilation:NATURAL

Protective G

loves:AS NECESSARY TO PREVENT PROLONGED SKIN CONTACT

Eye Protection:SAFETY GLASSES OR GOGGLES TO PREVENT EYE CONTACT.

Other Protective Equipment:WORK UNIFORM

Work Hygienic Practices:NOT PROVIDED.

Supplemental Safety and Health

NONE

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

HCC:N1

Boiling Pt:B.P. Text:NOT APPLICABLE.

Melt/Freeze Pt:M.P/F.P Text:NOT APPLICABLE.

Decomp Temp:Decomp Text:NOT PROVIDED.

Vapor Pres:NOT APPLICABLE.

Vapor Density:NOT APPLIC

Spec Gravity:1.1=PI

ECE;2.1=CRYSTAL  
pH:8-11 SLURRY  
Viscosity:NOT APPLICABLE.  
Evaporation Rate & Reference:NOT APPLICABLE.  
Solubility in Water:NOT APPLICABLE.  
Appearance and Odor:TAN PELLETS OR BEADS, WHITE POWDER OR CAKE  
Percent Volatiles by Volume:NOT APPLICAB  
Corrosion Rate:NOT PROVIDED.

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

Stability Indicator/Materials to Avoid:YES  
SUDDEN CONTACT WITH HIGH CONCENTRATIONS OF CHEMICALS HAVING HIGH HEATS  
OF ADSORPTION SUCH AS OLEFINS, HCL, E  
TC.  
Stability Condition to Avoid:THE ADDITION OF MOSITURE WITHOUT FLOODING  
CAN CAUSE RISE IN TEMPERATURE FROM HEAT ADSORPTION. CONTACT WITH  
SKIN MAY RESULT IN BURNS.  
Hazardous Decomposition Products:DECOMPOSITION PRODUCTS WILL COME FROM  
RETAINED PRODUCTS. PRODUCT ITSELF DOES NOT READILY DECOMPOSE UNLESS  
SUBJECT TO EXTREME TEMPERATURE. DECOMPOSITION WILL INCLUDE OXIDES  
SHOWN IN INGREDIENTS SECTION.

===== Toxicological Information =====

Toxicologi  
cal Information:NOT PROVIDED.

===== Ecological Information =====

Ecological:NOT PROVIDED.

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

Waste Disposal Methods:DISCARD ANY PRODUCT (INCLUDING ANY RETAINED  
MATERIALS OF USE), DISPOSABLE CONTAINER OR LINER IN AN  
ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH ALL  
APPLICABLE GOVERNMENT REGULATIONS. THI S PRODUCT IS NOT LISTED BY  
THE U.S. EPA'S RESOURCE CONSERVATION  
AND RECOVEY ACT (RCRA).

===== MSDS Transport Information =====

Transport Information:NOT REGULATED FOR TRANSPORTATION, PER MSDS.

===== Regulatory Information =====

SARA Title III Information:NONE  
Federal Regulatory Information:NOT PROVIDED.  
State Regulatory Information:NOT PROVIDED.

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