

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

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Composition/Information on Ingredients
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Ingred Name:SILICON OXIDE (SYNTHETIC)
CAS:7631-86-9
< 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
< Wt:40.
Other REC Limits:NOT PROVIDED.
OSHA PEL:15 MG/M3 (TDUST)
OSHA STEL:5 MG/M3 RES
P.
ACGIH TLV:10 MG/M3

Ingred Name:SODIUM OXIDE
CAS:1313-59-3
< Wt:20.
Other REC Limits:NOT PROVIDED.

Ingred Name:CALCIUM OXIDE
CAS:1305-78-8
RTECS #:EW3100000
< Wt:20.
Other REC Limits:NOT PROVIDED.
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3

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Hazards Identification
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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 HE

ALTH 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 RE

SPIRATORY 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 MOIS

T BODY TISSUE CAN RESULT IF CONTACT IS PROLONGED.

INHILATION: 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 GLA

SSES 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 MATER

IAL WILL NOT BURN. USE MEDIA
APPROPRIATE FOR SURROUNDING FIRE.

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 GIVEN 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 AND SAFE
PRACTICES FOR HANDLING MOLECULAR SIEVES IN PROCESS UNITS," M-1001,
CAN BE OBTAINED FROM YOUR UOP REPRESENTATIVE 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
INHALATION OF
PRODUCT DUST.

Ventilation:NATURAL

Protective Gloves: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 P

res:NOT APPLICABLE.
Vapor Density:NOT APPLIC
Spec Gravity:1.1=PIECE;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 CHEMI
CALS HAVING HIGH HEATS
OF ADSORPTION SUCH AS OLEFINS, HCL, ETC.
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 =====

Toxicological 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 PR

PRODUCT IS NOT LISTED BY

THE U.S. EPA'S RESOURCE CONSERVATION AND RECOVERY 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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