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UOP MOLECULAR SEIVE DIVISION -- MOLECULAR SIEVE TYPE 4A -- 6850-01-469-3292

Product ID: MOLECULAR SIEVE TYPE 4A

MSDS Date:02/01/1997

FSC:6850

NIIN:01-469-3292

MSDS Number: CKJYZ === Responsible Party ===

Company Name: UOP MOLECULAR SEIVE DIVISION

Address:25 E. ALGONQUIN ROAD

Box:5017

City:DES PLAINS

State:IL

ZIP:60017-5017

Country:US

Info Phone Num:847-391-3189 FA

X: 847-391-2953

Emergency Phone Num:847-391-3189

Resp. Party Other MSDS Num.: MSDS REV NO. 7

Chemtrec Ind/Phone:(800)424-9300

CAGE:02QC3

=== Contractor Identification ===

Company Name: ADCOA-ADSORBENTS AND DESICCANTS CORP OF AMERICA

Address:17000 S VERMONT AVENUE

Box:City:GARDENA

State:CA

ZIP:90247-5832

Country:US

Phone:310-532-6086

Contract Num:SP0450-00-M-SA49

CAGE:61134

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

Address: 926 SOUTH 8TH ST (FORMALLY HUMIDIAL)

Box:610 City:CO **LTON**

State:CA

ZIP:92324-0610

Country:US

Phone:909-825-1793

Contract Num:SP0450-01-M-ZB26

CAGE:00334

Company Name: UOP LLC

Address:25 E ALGONQUIN RD

Box: City: DES PLAINES

State:IL

ZIP:60017-5017

Country:US

Phone:847-391-3189 FAX: 847-391-2953

CAGE:02QC3

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

Ingred Name: SILICON OXIDE (SYNTHETIC)

CAS:112945-52-5

RTECS #:VV7310000

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CAS:1313-59-3

<: Wt:30.

Other REC Limits: NONE RECOMMENDED

Ingred Name: ALUMINUM OXIDE (NON-FIBROUS)

CAS:1344-28-1

RTECS #:BD1200000

<: Wt:30.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST: 9596

Ingred Name: MAGNESIUM OXIDE

CAS:1309-48-4

RTECS #:OM3850000

< Wt:5.

Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 PARTICULATE ACGIH TLV:10 MG/M3; FUME; 9596

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

Routes of Entry: Inhalati

on:NO Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGAN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE LUNG INJURY. SKIN-:THE PRODUCT DUST MAY DRY THE SKIN. THIS MATERIAL BECOMES HOT WHEN IT FIRST COMES INTO CONTACT W/MOISTURE. THE HOT MATERIAL CO ULD CAUSE THERMAL BURNS. EYE-DUST &/OR PRODUCT MAY CAUSE EYE DISCOMFORT &/OR IRRITATION SEEN AS TEARING & REDDENING. INGESTION-THE PRODUCT GETS HOT AS IT AB SORBS

WATER. BURNS TO MOIST BODY TISSUES CAN RESULT IF CONTACT IS PROLONGED. INHALATION-INHALATION OF PRODUCT &/OR DUST MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. IRRITATION MAY BE ACCOMPANIED BY COUGHING & CHEST DISCOMFORT.

Explanation of Carcinogenicity:INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): SILICON OXIDE (SYNTHETIC)-NOT CLASSIFIABLE AS HUMAN CARCINOGEN (GROUP 3). U.S. NATIONAL TOXICOLOGY PROGRAM (NTP): NEITHER THE PRODUCT NOR THE COMPON ENT(S) ARE

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NEITHER THE PRODUCT NOR THE COMPONENT(S) ARE CLASSIFIED OR REGULATED.
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First Aid:SKIN: WASH AFFECTED AREA WITH SOAP AND WATER. EYE: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. INGESTION: DRINK AT LEAST 2 GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. INHALATION: REMOVE AFFECTED PERSON TO FRESH AIR. IF RESPIRATORY PROBLEMS DEVELOP, OBTAIN
MEDICAL ATTENTION. NOTES TO PHYSICIAN: THIS PRODUCT IS A DESICCANT AND GENERATES HEAT AS IT ABSORBS WATER. THE USED PRODUCT CAN CONTAIN MATERIAL O F A HAZARDOUS NATURE. IDENTIFY THAT MATERIAL AND TREAT SYMPTOMATICALLY.
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Flash Point:NOT COMBUSTIBLE. Autoignition Temp:Autoignition Temp Text:NP Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN Extinguishing Media:UNUSED MATERIAL WILL NOT BURN. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. 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:SMALL SPILL: SWEEP OR VACUUM SPILLED PRODUCT INTO APPROPIATE CONTAINER (DO NOT USE A VACUUM IF MATERIAL HAS CONTACTED A HYDROCARBON). PRODUCT SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE GO VERNMENT REGULATIONS. "SEE OTHER INFORMATION"
============ Handling and Storage ==============
Handling and Storage Precautions:STORE IN TIGHTLY CLOSED, PROPERLY

CLASSIFIED. U.S.

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 R EPRESENTATIVE AT NO COST.

Other Precautions:THIS PRODUCT (IN ITS FRESH UNUSED ST

ATE) IS NOT

LISTED BY GENERIC NAME OR TRADEMARK NAME IN THE U.S. EPA RESOURCE CONSERVATION & RECOVERY ACT (RCRA) HAZARDOUS WASTE MANAGEMENT REGULATIONS & DOES NOT P OSSESS ANY OF THE FOUR IDENTIFYING CHARACTERISTICS OF HAZARDOUS WASTE (IGNITABILITY, CORROSIVITY, RE ACTIVITY, TOXICITY).

====== 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:WHERE NATURAL VENTILATION IS INADEQUATE, USE MECHANICAL VENTILATION, OTHER ENGINEERING CONTROLS.

Protective Gloves:GLOVES AS NECESSARY TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.

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

Other Protective Equipment: WORK UNIFORM AS NECESSARY TO PREVENT REPEATED/ PROLONGED SKIN CONTACT.

Supplem

ental Safety and Health

PROUCT NAME: MOLECULAR SIEVE TYPE 4A. CHEMICAL NAME: SODIUM ALUMINOSILICATE. SYNONYMS: ZEOLITE. TRADE NAME: UOP MOLECULAR SIEVE.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:NOT GIVEN
Vapor Density:NOT GIVEN
Spec Gravity:1.1PC; 2.1CRYST

pH:8 - 11 Viscosity:NA

Evaporation Rate & Dr. Reference: NOT GIVEN

Solubility in Wate

r:NOT GIVEN Appearance and Odor:TAN PELLETS/BEADS, WHITE POWDER OR CAKE, ODOR:NONE.
========= 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, HCI, ETC. Stability Condition to Avoid:THE ADDITION OF MOISTURE (WATER) WITHOUT FLOODING CAN CAUSE RISE IN TEMPERATURE FROM HEAT OF ADSORPTION. CONTACT WITH SKIN MIGHT RESULT IN BURNS. Haza
rdous Decomposition Products:HYDROCARBONS/OTHER MATERIALS THAT CONTACT THE PRODUCT DURING NORMAL USE CAN BE RETAINED ON THE PRODUCT. IT IS REASONABLE TO EXPECT THAT DECOMPOSITION PRODUCT WILL COME FROM THE RETAINED MATERIALS USED.
========= Toxicological Information ==========
Toxicological Information:ACUTE ORAL TOXICITY: THE FOLLOWING IS FOR A PRODUCT WITH A SIMILAR COMPOSITION. THE LD50 IS GREATER THAN 5 G/KG (RAT). ACUTE DERMAL TOXICITY: A DERMAL LD5 0 IS NOT AVAILABLE FOR THIS PRODUCT. ACUTE INH ALATION TOXICITY:AN INHALATION LC50 IS NOT AVAILABLE FOR THIS PRODUCT. IRRITATION: NOT AVAILABLE. ADDITIONAL TOXICOLOGICAL INFORMATION: A SIMILAR PRODUCT HAS AS EXTREMELY LOW ODRER OF TOXICITY BY SWLL OWING. THIS SIMILAR PELLETS WERE PULVERIZED & SUSPENDED IN SEMI-SOLID AGAR FOR EASE OF ADMINISTRATION. WHEN THE MOLECULAR SIEVE WAS ADMINISTERED BY STOMACH INTUBATION TO MALE RATS, THE ANIMALS SURVIVE D MASSIVE DOSES EQU IVALENT TO 32.0 G/K
========= Ecological Information ===========
Ecological:AQUATIC TOXICITY: NONE KNOWN. WATERFOWL TOXICITY: NONE KNOWN. BIOCHEMICAL OXYGEN DEMAND: NONE. FOOD CHAIN CONCENTRATION POTENTIAL: NONE EXPECTED.

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

MATERIALS OF USE), DISPOSABLE CONTAINER OR LINER IN AN

ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL C

Waste Disposal Methods: DISCARD ANY PRODUCT (INCLUDING ANY RETAINED

======== MSDS Transport Information =========
Transport Information:US DEPARTMENT OF TRANSPORTATION SHIPPING NAME: NOT REGULATED. INTERNATIONAL MARITIME ORGANIZATION (IMO): NOT REGULATED.

APPLICABLE GOVERRNMENT REGULATIONS. "S EE OTHER PRECAUTION"

SARA Title III Information:SUPERFUND AMENDMENTS & REAUTHORIZATION ACT TITLE II, SECTION 313: THE FOLLOWING COMPONENT(S) O

F THIS PRODUCT

OMPLIANCE WITH ALL

ARE SUBJECT TO RELEASE REPORTING UNDER 40 CFR 302 WHEN A RELEASE EXCEEDS THE REPORTABLE QUA NTITY (RQ) &/OR THE COMPONENT(S)ARE SUBJECT TO THE EMERGENCY PLANNING PROVISIONS OF 40 CFR 355 WHEN THERE ARE AMOUNTS PRESENT WHICH ARE EQUAL TO OR GREATER THAN THEIR THRESHOLD PLNNING QUANTITY (TPQ). -NONE-. SUPERFUND AMENDMENTS & REAUTHORIZATION ACT TITLE III: NO COMPONENTS OF THIS PRODUCT ARE SUBJECT TO EMERGENCY PLANNING BASED ON TPQ'S & RELEASE REPORTING

BASED ON RQ`S IN 40 CFR 355 (USED FOR SARA 302, 304, 311 & 312). Federal Regulatory Information:TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL THE INGREDIENTS OF THIS MIXTURE ARE REGISTERED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

State Regulatory Information:STATE COMMUNITY RIGHT-TO-KNOW LEGISLATION: THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE REGULATED UNDER CALIFORNIA'S PROPOSITION 65: NONE.

=========== Other Information ==================

Disclaimer (pro

vided with this information by the compiling agencies):

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