

Vista Chemical Company

900 Threadneedle  
Houston, Texas 77079-2990  
(713) 588-3000

P.O. Box 19029  
Houston, Texas 77224-9029  
Fax (713) 588-3236

TGG: JGL: ~~EGJ~~: AC: AJO: RF

XF: None

VISTA

April 30, 1991

Mr. Robert Palmer  
Product Stewardship Coordinator  
HS&E Department  
UOP  
25 East Algonquin Road  
Des Plaines, Illinois 60017-5017

Dear Robert:

The attached MSDS was recently received by Vista. It indicates Aluminum Oxide is subject to SARA 313 reporting requirements. It is our understanding that this product was delisted in 1990 and 313 reporting is no longer required.

Please let us know if this is incorrect. If it is, you should consider modifying your MSDS.

Sincerely,



Thomas G. Grumbles, C.I.H.  
Manager Environmental Affairs

dlj

Attachment

VVV 000006304





# Material Safety Data Sheet

UOP  
25 East Algonquin Road  
Des Plaines, Illinois 60017-5017  
Telephone: 708-391-2000  
FAX: 708-391-2953  
Telex: 211-442

Emergency Assistance  
24 Hour Emergency Telephone Numbers:  
USA: UOP 708/391-2123  
Chemtrec 800/424-9300  
Canada: Canatrec 813/996-6666  
Outside USA: Chemtrec 202/483-7616

## PRODUCT NAME

UOP TYPE ADS-14, ADS-14(L)

MOLEX<sup>®</sup> SORBENT

## INGREDIENTS

Page 1 of 4

| <u>MATERIAL</u> | <u>(CAS NO.)</u> | <u>WT(%)</u> | <u>1988-89 ACGIH TLV-TWA</u><br><u>(OSHA PEL)</u>                                                        |
|-----------------|------------------|--------------|----------------------------------------------------------------------------------------------------------|
| Calcium oxide   | (1305-78-8)      | <20          | 2 mg/m <sup>3</sup><br>(5 mg/m <sup>3</sup> )                                                            |
| Sodium oxide    | (1313-59-3)      | <15          | None established                                                                                         |
| Aluminum oxide* | (1344-28-1)      | <40          | 10 mg/m <sup>3</sup> As Al<br>(10 mg/m <sup>3</sup> Total dust)<br>(5 mg/m <sup>3</sup> Respirable dust) |
| Silicon oxide   | (7631-86-9)      | <50          | 10 mg/m <sup>3</sup> Total dust<br>5 mg/m <sup>3</sup> Respirable dust<br>(6 mg/m <sup>3</sup> )         |

Governmental Inventory Status: All components registered in accordance with TSCA.

\*This chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community-Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

Under the TSCA rules for mixtures and naturally occurring substances the EPA considers this product to be a statutory mix, therefore, only its component oxides or metals shown in the above section are in the inventory.

## TRANSPORTATION CLASSIFICATION

DOT Hazard Class: Not regulated

IMO Hazard Class: Not regulated

## PHYSICAL DATA

Apparent Bulk Density, lbs./cu. ft.: 46      Appearance: Tan granular  
Solubility in Water: Nil      Odor: None

VVV 000006305

#### FIRE AND EXPLOSION DATA

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Flash Point, °F (°C):       | Not combustible                                 |
| Method:                     | Not applicable                                  |
| Extinguishing Media:        | Water fog, foam, CO <sub>2</sub> , dry chemical |
| Fire and Explosion Hazards: | None                                            |

#### REACTIVITY DATA

|                                   |                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------|
| Stability:                        | Stable                                                                             |
| Conditions to Avoid:              | Sudden contact with chemicals having high heats of absorption.                     |
| Hazardous Decomposition Products: | None                                                                               |
| Hazardous Polymerization:         | Will not occur                                                                     |
| Incompatible Materials:           | Highly concentrated chemicals having high heats of absorption (e.g., olefins, HCl) |

#### SPILL OR LEAK PROCEDURE

NOTE: Sorbent is insoluble and will sink in water.

Large Spills: Immediately isolate the affected areas and keep out all unauthorized people. Confine entry to the contaminated area to those who are wearing proper personal protective equipment. Special attention should be given to respiratory and eye protection, because recovery of material can be expected to generate dust.

Vacuum or shovel spilled product up, placing it into appropriate recovery drums or containers. Reposition, plug or place into oversize recovery drums any leaking drums, to prevent further losses.

Small Spills: Wear proper protective equipment, especially respiratory and eye protection. Sweep, shovel or vacuum up the spilled sorbent and place into appropriate container(s).

#### WASTE DISPOSAL

Dispose of fresh or spent product in accordance with federal, state and local waste management regulations.

#### HEALTH HAZARD DATA

|                             |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Routes Of Exposure: | Contact with skin. Product ingestion is unlikely but may occur if proper safety/hygiene procedures are not followed. Exposure may also occur via eye contact, inhalation or ingestion if product dust is generated during handling and/or processing. In order to minimize exposure to product, proper protective equipment should be used and proper safety/hygiene procedures should be followed. |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Acute Oral LD<sub>50</sub>: 27.5 g/kg (rat).  
Acute Inhalation LC<sub>50</sub>: No test data for product. Actual work experience indicates that extensive or repeated exposure to sorbent dust may cause irritation of the upper respiratory tract.  
Acute Dermal LD<sub>50</sub>: No data for product.  
Primary Eye Irritation: No data for product.  
Primary Dermal Irritation: No data for product.  
Toxicology Summary: Sorbent is considered non-toxic via oral and dermal routes and is not a primary skin or eye irritant. Repeated or prolonged inhalation may cause irritation of the upper respiratory tract.

#### FIRST AID

Skin: Wash affected parts thoroughly with a mild skin detergent. Rinse thoroughly, repeat the process. If irritation develops, obtain professional medical attention.  
Eyes: Flush with water for at least 15 minutes; if irritation develops, seek medical attention.  
Inhalation: Remove affected person to fresh air. If unconscious, give artificial respiration and obtain professional medical attention.  
Ingestion: Obtain professional medical attention.

#### Note To Physician:

This product is a dessicant and generates heat as it absorbs water. The used product can contain material of a hazardous nature. Identify that material and treat accordingly.

#### PROTECTIVE EQUIPMENT

Respiratory: Where natural ventilation is inadequate, use NIOSH-approved toxic dust respirator.  
Skin: Gloves, footwear, coveralls and/or apron as necessary to prevent repeated or prolonged skin contact.  
Eye: Chemical goggles, face shield, as necessary to prevent eye contact.

#### SPECIAL PRECAUTIONS

Store in tightly closed, properly labeled containers. Keep away from sily-oxidized materials.

NOTE: If further details are required, please address inquiries to:  
Product Stewardship Coordinator  
Environmental Sciences Group  
UOP, 25 East Algonquin Road, Des Plaines, IL 60017-5017  
(708) 391-3189

24 Hour EMERGENCY Telephone Number: (708) 391-2123

The data and recommendations presented in this data sheet concerning the use of our product and the materials contained therein are believed to be accurate and are based on information which is considered reliable as of the date hereof. However, the customer should determine the suitability of such materials for his purpose before adopting them on a commercial scale. Since the use of our products by others is beyond our control, no guarantee, express or implied, is made and no responsibility assumed for the use of this material or the results to be obtained therefrom. Information on this form is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this data sheet are not to be construed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.

UOP

Date: September 1989

Revision: 2

Supercedes: January 1989

VVV 000006308