



## MATERIAL SAFETY DATA SHEET

**Effective Date** April 22, 2003  
**MSDS Number** M46

### Section 1 – Product and Company Information

**Product Name:** Transorb  
**Product Use:** Desiccant, absorbent  
**Grades:** Transorb  
**Synonyms:** Desiccant, absorbent  
**Company:** Multisorb Technologies, Inc.  
**Street Address:** 325 Harlem Road  
**City, State, Zip, Country:** Buffalo, NY 14224-1893 USA  
**Telephone Number:** (716) 824 8900 [USA] Monday - Friday (8:00 - 5:00 EDT)  
**Fax Number:** (716) 824 4091 [USA]  
**Website / E-Mail :** multisorb.com

### Section 2 – Composition / Information on Ingredients

Component Name	CAS Number	% by Weight
Calcium chloride	10043-52-4	15 - 50
Vermiculite	1318-00-9	50 - 75
High density polyethylene fiber	9002-88-4	5 - 15

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

### Section 3 – Hazard Identification

**Emergency Overview:** A white packet containing granular material that poses little or no immediate hazard

**Potential Health Effects:**

**Eyes:** None

**Skin:** None

**Ingestion:** Ingestion is very unlikely but if ingested blockage may occur. Get medical attention.

**Inhalation:** None

**Medical Effects Generally Aggravated by Exposure:** None

**Chronic Effects/Carcinogenicity:** None

### Section 4 – First Aid Measures

**Eyes:** Rinse the eyes well with water while lifting eye lids. If irritation persists, consult physician.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Ingestion is very unlikely but if ingested blockage may occur. Get medical attention.

**Inhalation:** Remove the affected person to fresh air and get medical attention if necessary.

**Notes to Physician:** Not applicable

## Section 5 – Fire Fighting Measures

**Flammable Properties:** Not flammable

**Flash Point:** Not applicable

**Method:** Not applicable

**Flammable Limits:** Not flammable

**Lower Flammability Limit:** Not applicable

**Upper Flammability Limit:** Not applicable

**Autoignition Temperature:** Not applicable

**Hazardous Combustion Products:** Not applicable

**Extinguishing Media:** Use extinguishing media that is appropriate for the surrounding fire. Calcium chloride and vermiculite are not combustible but the high density polyethylene fiber is combustible.

**Fire Fighting Instructions:** The calcium chloride and vermiculite are not combustible but the high density polyethylene fiber packaging is combustible.

**Unusual Fire and Explosion Hazards:** None

## Section 6 – Accidental Release Measures

**Spill:** Sweep or vacuum up and place the spilled material in a waste disposal container. Avoid raising dust. Wash with soap and water after handling.

## Section 7 – Handling and Storage

**Handling:** Avoid raising dust and minimize the contact between worker and the material. Practice good hygienic work practices.

**Storage:** Store in a cool, dry location. Keep in sealed containers away from moisture. Transorb will readily adsorb moisture.

## Section 8 – Exposure Controls/Personal Protection

**Engineering Controls:** Not required.

**Respiratory Protection:** Not required.

**Skin Protection:** Not required

**Eye Protection:** Not required.

Component Name	Exposure Limits		
	OSHA PEL	ACGIH TLV	Other Recommended Limits
Calcium chloride	Not applicable	Not applicable	Not applicable
Vermiculite	TWA 5 mg / m <sup>3</sup> (respirable dust) TWA 15 mg / m <sup>3</sup> (total dust)	TWA 3 mg / m <sup>3</sup> (respirable dust) TLV / TWA 10 mg / m <sup>3</sup> (total dust)	Not applicable

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	White packets	<b>Vapor Density:</b>	Not applicable
<b>Odor:</b>	None	<b>Boiling Point:</b>	Not applicable
<b>Physical State:</b>	White packets	<b>Melting Point:</b>	Not applicable
<b>PH:</b>	Not applicable	<b>Solubility:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable	<b>Specific Gravity:</b>	Not applicable

## Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Moisture and high humidity environments.
<b>Incompatibility:</b>	Water
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur

## Section 11 – Toxicological Information

This product and its components are not listed on the IARC, NTP or OSHA Carcinogen lists.

### Toxicological Data:

Calcium chloride: Orl - Rat LD<sub>50</sub>: 1 gm / kg  
Ipr - Rat LD<sub>50</sub>: 264 mg / kg  
Scu - Rat LD<sub>50</sub>: 2630 mg / kg  
Ims - Rat LD<sub>50</sub>: 25 mg / kg  
Orl - Mus LD<sub>50</sub>: 1940 mg / kg  
Ipr - Mus LD<sub>50</sub>: 245 mg / kg  
Scu - Mus LD<sub>50</sub>: 823 mg / kg  
Ivn - Mus LD<sub>50</sub>: 42 mg / kg

Vermiculite: Not available

## Section 12 – Ecological Information

Not known to have any adverse effect on the aquatic environment.

## Section 13 – Disposal Information

**Disposal Information** If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Materials of a hazardous nature that contact the product during normal use may be retained on the product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options. Dispose according to federal, state and local regulations.

## Section 14 – Transportation Information

**U.S. Department of Transportation Shipping Name:** Not classified as a hazardous material. Not regulated.

## Section 15 – Regulatory Information (Not meant to be all inclusive - selected regulations represented)

**TSCA Listed:** Yes (Ingredients)

**DSL/NDSL (Canadian) Listed:** Yes (Ingredients)

**OSHA:** TWA 5 mg / m<sup>3</sup> respirable dust (vermiculite)  
TWA 15 mg / m<sup>3</sup> total dust (vermiculite)

**NIOSH:** Not applicable

**EPA:** This product contains no toxic chemicals in excess of the applicable de minimis concentration as specified under 313 of Title III SARA.

**ACGIH:** TWA 3 mg / m<sup>3</sup> respirable dust (vermiculite)  
TLV / TWA 10 mg / m<sup>3</sup> total dust (vermiculite)

**DOT:** Not classified as a hazardous material.

## Section 16 – Other Information

### HMIS – Hazardous Materials Identification System

HMIS Rating	
Health	0
Flammability	0
Reactivity	0

**0 - minimal hazard, 1 - slight hazard, 2 - moderate hazard, 3 - serious hazard, 4 - severe hazard**

This MSDS was prepared by: George E. Mckedy  
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This data and recommendations presented in this data sheet concerning the use of our product and the materials contained therein are believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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 is beyond our control, no guarantee, expressed 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.