



## Safety Data Sheet (SDS)

### Section 1 – Product and Company Information

**Product Name:** B-Desiccant, 325 gram (DesiCom B)  
**Product Number:** 79356  
**Product Use:** Desiccant, absorbent  
**Grades:** Silica gel non-indicating  
**Synonyms:** Amorphous silica gel, SiO<sub>2</sub>, silicon dioxide (amorphous)

**Manufacturer/Distributor:** Rainbow Technology Corporation (800) 637-6047  
**Contact Person:** Larry Joe Steeley, Jr.  
**Emergency Phone # (24HRS)** Chem-Tel Inc. (800) 255-3924  
**Issue Date:** May 27, 2014  
**Replaces MSDS Dated:** October 6, 2009

### Section 2 – Composition / Information on Ingredients

Component Name	CAS Number	% by Weight
Synthetic amorphous silica gel (SiO <sub>2</sub> )	112926-00-8	85 - 95
Mylar foil polyethylene lamination	Not applicable	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 silver packet containing a clear granular material that poses little or no immediate hazard. This material is not combustible.

**Potential Health Effects:**

**Eyes:** None

**Skin:** None

**Ingestion:** Ingestion is unlikely. If the ingredients are ingested they are non-toxic and will pass through the body normally.

**Inhalation:** None

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

# Safety Data Sheet (SDS)

Page 2 of 5

Product No. 79356 B-Desiccant, 325 gram (DesiCom B)

Chronic Effects/Carcinogenicity: None

## Section 4 – First Aid Measures

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

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

**Ingestion:** Ingestion is unlikely. If the ingredients are ingested they are non toxic and will pass through the body normally.

**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. Silica gel is not combustible but the packaging is combustible.

**Fire Fighting Instructions:** The silica gel is not combustible but the packaging is combustible.

**Instructions:**

**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.

# Safety Data Sheet (SDS)

Page 3 of 5

Product No. 79356 B-Desiccant, 325 gram (DesiCom B)

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

## Section 8 – Exposure Controls/Personal Protection

**Engineering Controls:** Not required.

**Respiratory Protection:** Not required.

**Skin Protection:** Light gloves will protect against abrasion and drying of the skin.

**Eye Protection:** Not required.

Component Name	Exposure Limits OSHA PEL	ACGIH TLV	Other Recommended Limits
Silica gel	TWA 20 mppcf (80 mg / m <sup>3</sup> % SiO <sub>2</sub> )	TWA 10 mg / m <sup>3</sup>	NIOSH REL TWA 6 mg / m <sup>3</sup> IDLH 3000 mg / m <sup>3</sup>

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Silver packets	<b>Vapor Density:</b>	Not applicable
<b>Odor:</b>	None	<b>Boiling Point:</b>	4046° F (2230° C) (Silica Gel)
<b>Physical State:</b>	Silver packets	<b>Melting Point:</b>	3110° F (1710° C) (Silica Gel)
<b>PH:</b>	Not applicable	<b>Solubility:</b>	Insoluble in water
<b>Vapor Pressure:</b>	Not applicable	<b>Specific Gravity:</b>	2.1

## Section 10 – Stability and Reactivity

**Stability:** Stable

**Conditions to avoid:** Moisture and high humidity environments.

**Incompatibility:** Water, fluorine, oxygen difluoride, chlorine trifluoride

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Will not occur

# Safety Data Sheet (SDS)

Product No. 79356 B-Desiccant, 325 gram (DesiCom B)

## Section 11 – Toxicological Information

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

**Animal Toxicology** Tests for DOT Hazard classification  
( Tests Conducted on finely ground silica gel)

1 - hour LC<sub>50</sub> (rat) > 2 mg / l  
48 - hour oral LD<sub>50</sub> (rat) est. > 31,600 mg / kg  
48 - hour dermal LD<sub>50</sub> (rabbit) est. > 2,000 mg / kg  
Considered an ocular irritant

**Human Toxicology** Silica gel is synthetic amorphous silica not to be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects. In the activated form, silica gel acts as a desiccant and can cause a drying irritation of the mucous membranes and skin in cases of severe exposure. Rainbow Technology Corporation does not know of any medical conditions that are abnormally aggravated by exposure to silica gel. The primary route of entry is inhalation of dust.

## Section 12 – Ecological Information

Not known to have any adverse effect on the aquatic environment. Silica gel is insoluble and non-toxic.

## 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.

# Safety Data Sheet (SDS)

Product No. 79356 B-Desiccant, 325 gram (DesiCom B)

## 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 20 mppcf (80 mg / m<sup>3</sup> % SiO<sub>2</sub>)

**NIOSH:** REL TWA 6 mg / m<sup>3</sup> IDLH 3,000 mg / m<sup>3</sup>  
Animal tests conducted in 1976 - 1978. 18 month exposure at 15 mg / m<sup>3</sup> showed silica deposition in respiratory macrophages and lymph nodes, minimum lung impairment, no silicosis.

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

**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**

The information provided herein was believed to be accurate at the time of preparation and prepared from a compilation of sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for its intended use.