

Safety Data Sheet (SDS)

Section 1 – Product and Company Information

Product Name:	C-Desiccant, 4 oz bag (DesiCom C)		
Product Use:	Desiccant, absorbent		
Grades:	Silica gel non-indicating		
Synonyms:	Amorphous silica gel, SiO ₂ , silicon dioxide (amorphous)		
Product Number:	79358		
Manufacturer/Distributor:	Rainbow Technology Corporation (800) 637-6047		
Contact Person:	Larry Joe Steeley, Jr.		
Emergency Phone # (24 HRS)	Chem-Tel 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 ₂)	112926-00-8	90 - 99
Kraft Paper	Unlisted	1 - 10

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 packet containing a clear granular material that poses little or no immediate hazard. The packet is made of brown kraft paper on both sides. The silica gel is not combustible, but the kraft paper packaging is combustible.

Potential Health Effects:

Eyes:	None	
Skin:	None	
Ingestion:	Ingestion is very unlikely.	
Inhalation:	None	
Medical Effect	s Generally Aggravated by Exposure:	None
Chronic Effect	s/Carcinogenity: None	

Section 4 – First Aid Measures

Eyes:	Rinse the eyes well with water while lifting eye lids. If irritation persists, consult a physician
Skin:	Wash affected area with soap and water.
Ingestion:	Ingestion is very unlikely.
Inhalation:	Remove the affected person to fresh air and get medical attention if necessary.
Notes to Physic	ian: Not applicable

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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 kraft paper packaging is combustible.				
Fire Fighting Instructions: The silica gel is not combustible but the kraft paper packagin combustible.		aft paper packaging is		

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. 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		
			Other
	OSHA	ACGIH	Recommended
	PEL	TLV	Limits
Silica gel	TWA 20 mppcf	TWA 10 mg / m^3	NIOSH REL
	$(80 \text{ mg} / \text{m}^3 \% \text{ SiO}_2)$	_	TWA 6 mg / m^3
			IDLH 3000 mg / m ³

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Section 9 – Physical and Chemical Properties

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

Section 10 – Stability and Reactivity

Stability:	Stable	
Conditions	to avoid:	Moisture and high humidity environments.
Incompatib	ility: Wat	er, fluorine, oxygen difluoride, chlorine trifluoride
Hazardous	Decomposit	ion Products: None
Hazardous	Polymerizat	tion: Will not occur

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_{50} (rat) > 2 mg / 1 48 - hour oral LD_{50} (rat) est. > 31,600 mg / kg 48 - hour dermal LD_{50} (rabbit) est. > 2,000 mg / kg Considered an ocular irritant		
Human Toxicology	Silica gel is a 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

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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 20 mppcf ($80 \text{ mg} / \text{m}^3 \% \text{ SiO}_2$)

- **NIOSH:** REL TWA 6 mg / m³ IDLH 3,000 mg / m³ Animal tests conducted in 1976 - 1978. 18 month exposure at 15 mg / m³ 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.