



Safety Data Sheet (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Desiccant
Product No.: 49350, 49358
Manufacturer: Rainbow Technology Corporation 1-800-637-6047
Contact: Larry Joe Steeley, Jr.
Emergency Phone No. (24 Hrs.): **CHEM-TEL 1-800-255-3924**

SDS Issue Date: 3-22-2024
SDS Replaces Date: 6-8-2015

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:
IMMEDIATE CONCERNS:

Desiccare Silica Gel Desiccant Product will vary in size and type of substrate
 The desiccant poses little or no hazard.

POTENTIAL HEALTH EFFECTS:

EYES:

Route of exposure unlikely, Dust may cause a mechanical irritation which can scratch the eye.

SKIN:

No adverse effects expected.

INGESTION:

Non-toxic by ingestion. Pillow paks may pose a choking hazard. Keep away from children and pets.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

PRESERVATIVES AND SOLVENTS:
OTHER GASES AND LIQUIDS:

None
 None

Silica Gel CAS Number::
Formula:

63231-67-4
 $\text{SiO}_2 \cdot n\text{H}_2\text{O}$

SECTION 4: FIRST AID MEASURES

EYES:

Do not rub eyes. Flush with plenty of water or eye wash solution for 5 minutes. While holding the eyelid open. Get medical attention if irritation persists.

SKIN:

Wash with soap and water.

INGESTION:

Normally not needed. Encourage fluid intake. Seek medical attention if symptoms develop or persist.

INHALATION:

Normally not needed. Remove to fresh air. If symptoms of irritation persist, seek medical attention.

Safety Data Sheet (SDS)

SECTION 5: FIRE-FIGHTING MEASURES

FIRE: Not considered to be a fire hazard

EXPLOSION: Not considered to be an explosion hazard

EXTINGUISHING MEDIA: Use extinguishing agent applicable to surrounding fire.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus operated in pressure-demand mode, (NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILL: No special precautions required. Material can also be vacuumed up

LARGE SPILL: With shovel or scoop, place material in to appropriate container.

SECTION 7: HANDLING AND STORAGE

HANDLING: When handling packets to be used in packaging, minimize exposure to ambient moisture conditions. Take what is to be used from the container and reseal the container.

STORAGE: Store in a dry area.Keep container tightly closed until ready to use

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg / m ³	ppm	mg / m ³
Silica Gel	8 hrTWA	(1)	(1)	(2)	(2)
OSHA TABLE COMMENTS:					
⁽¹⁾ (80 mg/m ³) / SiO ₂					
⁽²⁾ 3 mg / m ³ respirable and 10 mg / m ³ inhalable					

Comments
 All inert or nuisance dusts, whether mineral, inorganic or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is 5 mg/m³ respirable fraction and 15 mg/m³ for total dust. ACGIH exposure guuidelines of less than 3 mg/ m³ (respirable) and 10 mg/m³ (inhalable) have been established for particles (insoluble/poorly soluble) not otherwise specified (PNOS).

Personal Protection when handling bulk containers of desiccant fill raw material:.

RESPIRATORY PROTECTION: Good ventilation should be sufficient to control airborne levels..

EYE PROTECTION: Safety glasses should be worn.

SKIN PROTECTION: Proper hygiene practices in the workplace is recommended.

WORK HYGIENIC PRACTICES: Normal work and hygiene practices.

Safety Data Sheet (SDS)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
COLOR: White, Translucent
ODOR: Odorless
pH: 7
PERCENT VOLATILE: Not Applicable
VAPOR PRESSURE, VAPOR DENSITY: Not Applicable
OXIDIZING PROPERTIES: None
SOLUBILITY IN WATER: Insoluble

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable
HAZARDOUS POLYMERIZATION: No
REACTIVITY: Silica Gel when exposed to water will temporarily evolve heat as it adsorbs water .

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE: ORAL LD₅₀:

Silica Gels are very low in oral toxicity based on comparison to related forms of silica. No adverse effects have been observed in experimental animals following ingestion of any form of amorphous silica.

CARCINOGENICITY:

	NTP	IARC	OSHA
Chemical Name	STATUS	STATUS	STATUS
Silica Gel	Not Listed	Not Listed	Not Listed

SENSITIZATION: Not Sensitizing

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No known ecological hazards are associated with this product.
CHEMICAL FATE INFORMATION: Silica Gel is not biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of according to local, state and federal regulations, product is non hazardous
RCRA P-Series: None listed
RCRA U-Series: None listed

SECTION 14: TRANSPORT INFORMATION

NOT REGULATED: DOT (Department of Transportation), Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG), Canada Transport of Dangerous Goods
HAZARD CLASS: NA
UN NUMBER: NA

SECTION 15: REGULATORY INFORMATION

NOT REGULATED: SARA Title III, CERCLA, TSCA, California Proposition 65,

SECTION 16: OTHER INFORMATION

HMIS Rating: 0 Health, 1 Flammability, 0 Physical Hazard , A Personal Protection
Personal Protection should be determined based on workplace conditions

MANUFACTURER DISCLAIMER: The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.



RAINBOW TECHNOLOGY CORPORATION
Specialists in Utility Chemicals & Safety Items

261 Cahaba Valley Parkway - Pelham, AL 35124-1146

Tel: 1.800.637.6047 / 205.733.0333

Fax: 1.800.521.6896 / 205.733.8930

www.rainbowtech.net

Woman-Owned Business Enterprise - Founded 1971

Safety Data Sheet (SDS)

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Product Name:..... Desiccant
Product No.:..... 49356
Manufacturer:..... Rainbow Technology Corporation 1-800-637-6047
Contact:..... Larry Joe Steeley, Jr.
Emergency Phone No. (24 Hrs.): **CHEM-TEL 1-800-255-3924**

SDS Issue Date:..... 3-22-2024
SDS Replaces Date:..... 5-29-2015

SECTION 2 – HAZARD IDENTIFICATION

Classification of the chemical:

A white polyethylene packet containing a white to clear granular material that poses little or no immediate hazard. There is no exposure to the contents of the packet. The silica gel is not combustible but the polyethylene packet is combustible. Not a hazardous substance or mixture according to the Global Harmonized System (GHS).

Most important hazards: Direct eye contact may cause irritation. For further information, please refer to section 11 of the SDS. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See section 12 for mere environmental information.

This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations)(WHMIS 2015).

Label elements

Hazard pictograms(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statements(s)

Not required

Precautionary statements(s)

Not required

Other hazards

Other hazards which do not result in classification:

Burning may produce irritating, toxic and obnoxious fumes. May cause gastrointestinal irritation.

Safety Data Sheet (SDS)

COMPONENT NAME	CAS NUMBER	% BY WEIGHT	EC #	ANNEX #
A sealed polyethylene packet containing silica gel	-	100% for the combination	-	-
Synthetic amorphous precipitated silica gel (SiO ₂)	112926-00-8	85 - 95 %	231-545-4	Not Listed
High density polyethylene fiber	9002-88-4	5 -15%	Not Listed	Not Listed
While this material is not classified as hazardous under GHS regulations, this SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.				

SECTION 4 – FIRST AID MEASURES

The following does not apply to the NatraSorb® TI packet but applies if the NatraSorb® TI is cut open and the person is exposed to the contents

Description of first aid measures

- Ingestion: Do not induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. If symptoms develop, seek medical attention.
- Inhalation: Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. If symptoms develop, seek medical attention.
- Skin contact: Wash with water and soap as a precaution. If symptoms develop, seek medical attention.
- Eye contact: Flush eyes with water as a precaution Get medical attention if irritation develops and persists.

Most important symptoms and effects, both acute and delayed

:Direct eye contact may cause slight or mild, transient irritation. Symptoms may include tearing, redness and discomfort. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Direct skin contact may cause slight or mild, transient irritation. Direct skin contact may cause temporary redness.

Indication of any immediate medical attention and special treatment needed

: Provide general supportive measures and treat symptomatically

Safety Data Sheet (SDS)

SECTION 5 – FIRE FIGHTING

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

Auto-ignition 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 polyethylene packaging is combustible.

Fire Fighting Instructions: The silica gel is not combustible; however the polyethylene packaging is combustible.

Unusual Fire and Explosion Hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spill: Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains, sewers, waterways and soils

Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Sweep up and shovel. Pick up and transfer to properly labeled containers. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

Safety Data Sheet (SDS)

SECTION 7 – HANDLING AND STORAGE

Handling: Minimize contact between the 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.

Incompatibility: Water, fluorine, oxygen difluoride, chlorine trifluoride

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Not applicable

Respiratory Protection: Not applicable

Skin Protection: Protective gloves

Eye Protection: Not applicable

EXPOSURE LIMITS			
COMPONENT NAME	OSHA PEL	ACGIH TLV	OTHER RECOMMENDED LIMITS
A sealed packet containing silica gel	Not Applicable	Not Applicable	Not Applicable

APPEARANCE:	A white packet containing a granular material	VAPOR DENSITY:	Not applicable
ODOR:	None	BOILING POINT:	Not applicable
PHYSICAL STATE:	Solid granule	MELTING POINT:	135° C (275° F)*
PH:	Not applicable	SOLUBILITY:	Insoluble in water
VAPOR PRESSURE:	Not applicable	SPECIFIC GRAVITY:	Not applicable
FLAMMABLE:	Not applicable	AUTO-IGNITION POINT:	Not applicable
FLASH POINT:	Not applicable	FLAMMABLE LIMITS:	Not applicable
ODOR THRESHOLD:	None	EVAPORATION RATE:	Not applicable
PARTITION COEFFICIENT N-OCTANOL / WATER:	Not applicable	DECOMPOSITION TEMPERATURE:	Not known
VISCOSITY:	Not applicable	* Polyethylene	

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Moisture and high humidity environments will reduce the desiccating capacity.

Incompatibility: Water, fluorine, oxygen difluoride, chlorine trifluoride

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not occur

Reactivity: None

Safety Data Sheet (SDS)

SECTION 11 – TOXICOLOGICAL INFORMATION

*The following toxicological information refers to the contents of the packet.
In normal use, there is no exposure to the contents.*

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

IARC: Amorphous silica gel IARC - 3 (Unclassifiable as to Carcinogenicity in Humans)

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

1 - hour LC50 (rat) > 2 mg / l
48 - hour oral LD50 (rat) est. > 31,600 mg / kg
48 - hour dermal LD50 (rabbit) est. > 2,000 mg / kg
Considered an ocular irritant

Tests for FDA approval of silica gel for use in foods: LD50 (mice) 8,000 mg / kg (limit of test)
LD50 (rats) 4,500 mg / kg (limit of test)
6 months' feeding tests (rats) at levels up to 10 %
of the diet produced no effects.

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. Multisorb Technologies knows of no medical conditions that are abnormally aggravated by exposure to silica gel.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental: Not hazardous

Ecotoxicity: * Freshwater Algae Data 72 hour EC50 *Selenastrum capricornutum*: 440mg / L
* Freshwater Fish Species Data 96 hour LC50 *Brachydanio rerio*: 5,000 mg / L (static)
* Water Flea Data 48 hour EC50 *Ceriodaphnia*: 7,600 mg / L

*Silica, amorphous

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects: Not available

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, provincial and local regulations.

Safety Data Sheet (SDS)

SECTION 14 – TRANSPORTATION INFORMATION

U.S. Department of Transportation Shipping Name: Not classified as a hazardous material. Not regulated.
Non dangerous per IATA-DG regulations.

SECTION 15 – REGULATORY INFORMATION (NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

The following regulatory information refers to the contents of the packet. In normal use, there is no exposure to the contents.

TSCA Listed: Yes

OSHA: See section 8

NIOSH: See section 8

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.

ACGIH: See section 8

Food Chemical Codex: Silica gel is approved for functional use in foods.

USDA: Silica gel has been cleared for certain uses in salt and seasonings, and in curing mixtures for meat and poultry products.

FDA: Silica gel has been cleared for certain uses in foods per 21 CFR 160.105, 160.185 and 172.480.

DOT: Not classified as a hazardous material.

SECTION 16 – OTHER INFORMATION

HMIS – HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HMIS RATING	
Health:	1
Flammability:	0
Physical:	0

The HMIS rating information is intended solely for the use of individuals trained in the HMIS rating system.

The NPCA specifically recommends that preparers of SDS should not place HMIS PPE designation codes on the SDS or labels that leave the facility as it is not known the conditions under which the customer will use this product.

Date of Preparation: May 29, 2015

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 there from. 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.