Sorbtech

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SDS Safety Data Sheet

Form #: STI-135 Date: revision 000 02/27/2025

Section 1. PRODUCT IDENTIFICATION

Product Identifiers: Product Name: Silica Gel Desiccant Spheres with Yellow Indicator.
CAS number: 112926-00-8
Product Part Numbers: 22202, 22210, 23210

Synonyms: Yellow Indicating Silica Gel, Synthetic Amorphous Precipitated Silica.
Recommended use: Desiccant, Laboratory chemicals
Uses advised against: No information available

Details of the Supplier of the Safety Data Sheet:
Company: Sorbent Technologies
5955 Peachtree Corners East
Norcross, GA 30071 USA

Emergency Telephone Number: 1-866-767-2832

Section 2. HAZARD IDENTIFICATION

United States: According OSHA 29 CFR 1910.1200 HCS
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
GHS Classification of the Substance or Mixture including Precautionary Statements:
Based on available data, the classification criteria are not met. Not a hazardous substance or mixture.
Emergency Overview: Odorless white powder.
Potential Health Effects: Medical conditions aggravated by exposure: Not expected to be a health hazard.
Response:
Eyes: Not classified.
Skin: Not classified.
Ingestion: Not classified.
Inhalation: Not classified.
Chronic Effects: No adverse effects expected.

GHS Label Elements:
Hazard symbol: None
Signal Word: None
Hazard statement: This does not meet the criteria for classification.

Precautionary Statement:

Prevention:	P261	Avoid beathing dust/fume.
	P264	Wash thoroughly after handling. Wear eye protection/face protection.
Response:	P314	**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage:	P402	Store in a dry place.
	P404	Store in a closed container.
Disposal:	P501	Dispose of waste and residues including containers in accordance with local authority requirements.

Other Hazards Not Otherwise Classified (HNOC): None known.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:
Chemical characteristics, Amorphous silica gel

Ingredient	CAS No.	EC No.	%
Amorphous silica gel	7631-86-9, or 63231-67-4, or 112926-00-8	231-545-4	>99.7% (w/w)
Methyl Violet	548-62-9	610-776-8	<0.3%

Synonyms: Amorphous Silica Gel, Amorphous Silicon Dioxide,
Note: This is not the same as crystalline silica.
Formula: SiO2.H2O
Molecular weight: 60.08 g/mol.
Hazardous Impurities: None known

Section 4. FIRST AID MEASURES

Description of First Aid Measures
Skin: Wash material off skin with soap and water. Seek medical attention if irritation occurs.
Eyes: Immediately flush with copious amounts of water for 15 minutes lifting lower and upper eyelids occasionally. Remove contact lenses, if present and easy to do. Seek medical attention if irritation occurs.
Ingestion: Give one or two glasses of water to drink. Seek medical attention if gastrointestinal symptoms develop.
Inhalation: Remove to fresh air. Seek medical attention if cough or respiratory symptoms develop.

Most Important Symptoms and Effects, both acute and delayed
Mild eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Indication of any immediate medical attention and special treatment needed
Notes to Physician: Provide general supportive measures and treat symptomatically. Keep victim under observation.

General Information
Ensure that medical personnel are aware of the materials involved, and take precautions to protect themselves.

Section 5. FIRE-FIGHTING MEASURES

Fire: Not considered to be a fire Hazard.
Explosion: Not considered to be a fire Hazard.

Extinguishing Media
Suitable Extinguishing Media: Foam. Dry chemicals. Carbon dioxide (CO2)
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire..
Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.
Flash Point: Not applicable.
Non-flammable: OSHA Method 16CFR1500.44 (Incorporated by reference in 29CFR1920.1200).
Flammability Limits in Air: LFL and UFL, Not applicable.
Auto ignition temperature: Not applicable.

Protective equipment and precautions for firefighters
General fire Hazard: No unusual fire or explosion hazards noted.
Protection of firefighters: Cool containers exposed to heat with water spray and remove container from the fire area if you do so without risk.
Fire Fighting Instructions: Isolate large fires and allow to burn out. Extinguish fire using water fog, fine water spray, carbon dioxide or foam. Avoid stirring up dust clouds.
Fire Fighting Equipment: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) for all inside fires and large outdoor fires.
Hazardous Combustion Products: Under certain conditions, any airborne dust be an explosion hazard. Hazard greater as fineness increases.
Specific methods: Use standard firefighting procedure and consider the hazards of other involved materials.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing vapors, mist or gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Silica may be slippery. Do not step on the spilled silica. Evacuate non-essential personnel. Wear suitable protective clothing and gloves. For personal protection, see section 13 of this SDS.

Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and Material for Containment and Clean-up

If a Spill or Leak Occurs: Stop the flow the flow of material, if this is without risk. Ventilate the contaminated area. Wear appropriate protective equipment and clothing during clean-up. Clean-up spills in a manner that does not disperse dust into the air. Handle in accordance with industrial hygiene and safety practices. These practices include avoiding unnecessary exposure, and removal from eyes, skin, and clothing. The product is immiscible with water and will sediment in water systems. Prevent product from entering drains.
Disposal Method: Sweep up or vacuum up and shovel into suitable contains for disposal. Following product recovery, flush area with water. Spent should be disposed of in accordance with State and Federal laws. For waste disposal, see section 13 of this SDS.
Container Disposal: Do not reuse empty bags or drums.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Use in an area provided with appropriate exhaust ventilation. Avoid prolonged contact with eyes and skin. Do not breath dust. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Observe good industrial hygiene practices. Avoid release to the environment.

Conditions for Safe Storage, Including any Incompatibilities

Storage: Room temperature. Store in cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away form ignition sources. Do not store above 24 deg. C. Strongly hygroscopic.
Storage class (TRGS 510): Non-combustible Solids

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits: See below.
Biological Limit Values: No biological exposure limits noted for the ingredients.

Component	OSHA PEL	ACGIH TLV	NIOSHI DLH
Amorphous silica gel, (112926-00-8)	80mg/m3/ %SiO2	TWA 6 mg/m3 respirable 10 mg/m3 inhalable	
Methyl violet (548-62-9)	TWA 0.5 mg/m3	TWA 0.5 mg/m3	

ACGIH is the American Conference of Governmental Industrial Hygienists
OSHA is the Occupational Safety and Health Administration
NIOSH is the National Institute of Occupational Safety and Health
PEL is the Permissible Exposure Limits established by OSHA.
TLV is the Threshold Limit Value a term ACGIH uses to express the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.

Exposure Controls

Engineering Controls: Provide eye wash station. Use local exhaust to control emissions near the source. Ventilation systems should be configured to prevent exceeding the recommended or regulated exposure limits (i.e. OSHA PELs).

Eye Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields are recommended for any type of handling. Where eye contact or dusty conditions may likely, dust tight goggles are recommended. Have eye washing equipment available.

Skin/Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Avoid skin contact with this product. Wear appropriate dust resistant clothing. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Full contact material: Nitrile rubber of minimum layer thickness 0.11 mm and break through time 480 minutes.

Body protection: Choose protection in relation to its type, to the concentration and the amount of any dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and of the amount of any dangerous substances at the specific workplace.

Respiratory Protection: Follow the OSHA respiratory regulations found in 29 CFR 1910.134 or European Standard EN149. Keep dust exposure to a minimum with engineering and administrative controls.

Use appropriate NIOSH/MSHA approved particulate respirators if necessary. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Use type N95 (US) or type P1 (EN 143) dust masks for nuisance levels of dust.

General Industrial Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.

Environmental Exposure Controls

No special environmental precautions required.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	Yellow/Orange spherical beads
Odor:	Odorless
Odor Threshold:	Not available
pH:	3.0—8 (5% slurry)
Melting Point/Range:	1708-1718 deg. C
Boiling Point/Range:	2230 deg. C
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas);	Not applicable
Flammability or Explosive Limits	
Upper:	No data available
Lower:	No data available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	2.10 at 25 deg. C (water =1) Approximate
Solubility (water):	Insoluble
Solubility (solvents):	Insoluble
Partition Coefficient; n-octanol/water:	Not applicable
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	Not applicable
Bulk density:	No data
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing

Section 10. STABILITY AND REACTIVITY

Reactivity
None known based on the information available.

Chemical Stability
This product is stable under the specified conditions of storage, shipment and use. Avoid storing at high temperatures or in direct sunlight. Do not store above 24 deg. C.
Possibility of Hazardous Reactions
No data available.

Conditions to Avoid
Exposure to moisture, extreme heat, and incompatibles.
Incompatible Materials
Reacts with hydrogen fluoride, fluoride, oxygen difluoride, chlorine trifluoride, strong acids, strong bases and oxidizers.

Hazardous Decomposition Products
Thermal decomposition can lead to release of irritating gases and vapors such as silicon oxides.

Section 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects
Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Silicon dioxide	>5000 mg/kg (rat) IUCLID (2000)	>5000 mg/kg (rabbit)	>0.139 mg/l/4h IUCLID (2000)

Toxicologically Synergistic Products**:** No information available
Delayed and Immediate Effects as well as Chronic Effects from Short and Long Term Exposure
Irritation: Rabbit irritating.
Sensitization: Over 10 years exposure, worker did not have any skin sensitization.
Carcinogenicity Table below indicates if each agency has listed any ingredient as a Carcinogen.

Component	CAS-No.	IARC	NTP	ACGIH	OSHA
Amorphous silica gel	112926-00-8	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects: Animal testing did not show any mutagenic effects.

Reproductive Effects: Animal testing did not show any hazardous effects.

Developmental Effects: No information available.

Teratogenicity: No information available.

Specific Target Organ Toxicity (STOT)-single exposure: None known.
Specific Target Organ Toxicity (STOT)-repeated exposure: None known.

Aspiration: No information available

Symptoms / Effects, Both Acute and Delayed: No information available.

Endocrine Disruptor Information: No information available.

Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12. ECOLOGICAL INFORMATION

Toxicity
No toxicity limit of solubility. Do not empty into drains.

Ingredient	Test	Result	Species	Exposure
Amorphous silica	LC50/96h/fish	>10000 mg/l	Fish	96h
Amorphous silica	EC50/24h/daphnia	=1000 mg/l	Daphnia magna	24h
Amorphous silica	EC50/72h/algae	>10000 mg/l	Algae	72h

Persistence/ Degradability
No information available.

Bioaccumulation Potential
No data available.

Mobility in Soil
No information available.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Can be toxic to aquatic life.

Section 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Product: Collect and reclaim or dispose in sealed containers at a licensed or waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from Residues/unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated Packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Local regulations may be more stringent than state or federal requirements. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. TRANSPORTATION INFORMATION

Land:	**DOT (US)**:	Not regulated
	ADR/RID (EU):	Not regulated
	TDG (Canada):	Not regulated
Water:	**IMO/IMDG**:	Not regulated
Air:	**IACO/IATA**:	Not regulated

Special Precautions for User
No information available

Section 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture
International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Amorphous silica	X	X	-	235-545-4	-		X	X	X	X	X

X indicates listed (yes)
- indicates not listed (no)
DSL—Canada
NDSL—Canada
EINECS—European Union
IECSC—China
KECI—Korea Existing Chemicals Inventory
MITI—Japan Ministry of International Trade and Industry
ENCS—Japan Existing and New Chemical Substances
PICCS—Philippines Inventory of Chemical and Chemical Substances

U.S. Federal Regulations

TSCA**:** CAS# 112926-00-8 and 548-62-9 are listed on the TSCA inventory. Not regulated
CERCLA Hazardous Substances and Corresponding RQs: None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.
SARA Codes: CAS# 112926-00-8 and 548-62-9
SARA 311/312 Hazardous Categorization:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure:	No
Reactive Hazard:	No

SARA Section 313: Not regulated
Clean Air Act:
This material does not contain any hazardous air pollutants, Class 1 Ozone depletors or Class 2 Ozone depletors.

U.S. Department of Homeland Security (DHS)

This product does not contain any DHS chemicals.

States Right-to-Know

Amorphous silica CAS# 112926-00-8.
California Prop 65: Not listed. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
Massachusetts: Listed.
New Jersey Right to Know: Listed
Pennsylvania: Listed.
Florida: Listed
Rhode Island: Not listed
Illinois: Not listed
Connecticut - Hazardous Air pollutants: Not listed

Canadian Classification

WHMIS: Non-controlled.
DSL : Listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

Risk and Safety Phrases: S22: Do not breath dust
S24/25: Avoid contact with skin and eyes.

Section 16. OTHER INFORMATION

NFPA (National Fire Protection Association) Rating (USA):
Health : 1
Flammability: 0
Instability: 0
Others: none

HMIS (Hazardous Materials Identification System)Rating (USA):
Health Hazard: 1
Chronic Health Hazard: *
Flammability: 0
Physical Hazard: 0
Personal Protection: E (safety glasses, gloves, dust respirator)

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

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SDS REVISION SUMMARY:

This document has been updated to comply with the U.S. OSHA HazCom 2012 Standard replacing the current Legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)