*1 Product / Corporate Identification

1.1 **Product:** Type A Silica Gel Desiccant

1.2 **Application:** Dehumidifying, moisture-proof

1.3 **Manufacturer:**

Wisesorbent Technology LLC

11 E Stow Rd, Marlton, NJ 08053, USA

+1 856-872-7713/7714 +1 800-272-5238

*2 Hazards Identification

2.1. **Classification of the substance or mixture**

GHS Classification: Not a hazardous substance or mixture.

2.2. **Label elements**

Labelling according to GHS Not applicable

Hazard pictograms Not applicable

Signal word Not applicable

Hazard-determining components of labelling Not applicable

Hazard statements Not applicable

Precautionary statements Not applicable

2.3. **Other hazards**

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

*3 Composition/information on ingredients

3.1 **Substance**

Component	Percentage	Molecular Formula	CAS Number	EC Number
Silicon Dioxide	100%	SiO_2	14808-60-7	238-878-4

*4 Emergency Measure

4.1 **Description of first aid measures**

Inhalation: Consult doctor immediately if feeling unwell.

Ingestion: Rinse out mouth with plenty of water; consult doctor immediately if feeling unwell.

Skin contact: Wash with water and soap and rinse thoroughly; consult doctor immediately if skin irritation continues.

Eye contact: Rinse opened eyes for several minutes under running water; consult doctor if symptoms persist.

4.2 **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

4.3 **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

*5 Firefighting Measure

5.1 **Extinguishing media**

Suitable extinguishing agent: Use fire extinguishing methods suitable to surrounding conditions.

5.2 **Special hazards arising from the substance or mixture:**

No further relevant information available.

5.3 **Flammability:** Product is nonflammable, but the packaging material may produce harmful substances in fire.

5.4 **Advice for firefighters**

Protective equipment:

Mouth respiratory protective device

Wear fully protective suit

*6 Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Avoid contact with eyes.

Avoid formation of dust.

Avoid contact with skin.

Do not inhale dust.

Use respiratory protective device against the effect of fumes/dust/aerosol.

6.2 **Environmental precautions:** Do not empty into drains

6.3 **Methods and materials for containment and cleaning up:**

Clean up the broken bag and leaked material; vacuum the leakage dust.

Dispose contaminated material as waste according to item 13.

6.4 **Reference to other sections**

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for disposal information.

*7 Handling and Storage

7.1 **Precautions for safe handling:**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Keep desiccant pouch sealed.

Keep away from heat and sunlight.

Prevent formation of dust.

Avoid contact with skin and eyes.

Wear protective equipment, see Section 8.

7.2 **Conditions for safe storage including any incompatibilities:**

Store in a cool, dry area in room temperature.

Keep container tightly closed.

Do not store with acids, alkaline or salt materials.

Avoid excessive ventilation during storage as the product can absorb moisture from the air.

7.3 **Specific end uses(s)**

No further relevant information available.

*8 Exposure Controls / Personal Protection

8.1 **Control parameters:**

Occupational exposure limits			
Component	**OSHA PEL**	**ACGIH TLV**	**Other Recommended Limits**
Silicon Dioxide	Not Applicable	Not Applicable	Not Applicable

8.2 **Exposure controls:**

Base on composition shown in section 3, the following measures are suggested for occupational safety measure:

Hand protection: Wear protective gloves.

Respiratory protection: No special protection needed, use anti dust mask when the bag is broken.

Eye protection: No special protection needed, use safety glasses when the bag is broken.

Body protection: Wear appropriate protective clothing.

Engineering Control: General ventilation or local exhaust ventilation.

*9 Physical and chemical Properties

9.1 **Information on basic physical and chemical properties:**

Appearance: Spherical or irregular small particles

Odor: Odorless

PH Value: 4.0~8.0

Bulk Density: 700~850g/L

Boiling Point: 2230ºC

Melting Point: 1610ºC

Flammability: Non combustible

Flash Point: Not applicable

Ignition Point: Not applicable

Solubility: Insoluble, expand in water and form suspension

9.2 **Other Information:** No further relevant information available.

*10 Stability and Reactivity

10.1 **Reactivity:** The product is chemically stable under standard conditions.

10.2 **Stability:** Chemically stable under ordinary conditions.

10.3 **Possibility of Hazardous reactions:** The product is chemically stable under standard conditions

10.4 **Conditions to Avoid:** Avoid moisture during storage.

10.5 **Incompatible Materials:** Avoid hydrogen fluoride, hydrofluoric acid, chlorine trifluoride and oxygen difluoride

10.6 **Hazardous Decomposition Products:** No dangerous decomposition products known.

*11 Toxicological information

11.1 **Information on toxicological effects:**

Acute toxicity: Base on available data, the classification criteria art not met.

LD/LC50 values relevant for classification:

LD50/oral/rat = 7900 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = >2000 mg/kg

LD50/dermal/rat = No information available

LC50/inhalation/rat = >2.2 mg/L 1 h

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

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.

Skin corrosion/irritation: Base on available data, the classification criteria art not met.

Serious eye damage/irritation: Base on available data, the classification criteria art not met.

Respiratory or skin sensitization: Base on available data, the classification criteria art not met.

Germ cell mutagenicity: Base on available data, the classification criteria art not met.

Carcinogenicity: Base on available data, the classification criteria art not met.

Reproductive toxicity: Base on available data, the classification criteria art not met.

STOT-single exposure: Base on available data, the classification criteria art not met.

STOT-repeated exposure: Base on available data, the classification criteria art not met.

Aspiration hazard: Base on available data, the classification criteria art not met.

Carcinogenicity: Base on available data, the classification criteria art not met.

*12 Ecological Information

12.1 **Toxicity**

Ecotoxicity effects: Do not empty into drains. Do not flush into surface water or sanitary sewer system.

Freshwater Algae Data: 440 mg/L EC50 Pseudokirchneriella subcapitata 72 h

Freshwater Fish Species Data: 5000 mg/L LC50 Brachydanio rerio 96 h static 1

Water Flea Data: 7600 mg/L EC50 Ceriodaphnia dubia 48 h

12.2 **Persistence and degradability:** No further relevant information available.

12.3 **Bioaccumulative potential:** No further relevant information available.

12.4 **Mobility in soil**: No further relevant information available.

12.5 **Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

12.6 **Other adverse effects:**

Endocrine Disruptor Information: This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant: This product does not contain any known or suspected substance

Ozone Depletion Potential: This product does not contain any known or suspected substanceNo further relevant information available.

*13 Disposal consideration

13.1 **Waste treatment methods:**

Waste from Residues / Unused Products: It does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Chemical waste generators must

determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated Packaging: Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.

***14 Transportation information**

IMDG/IMO Not regulated

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

ADR Not regulated

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

IATA Not regulated

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

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

14.6 Environmental hazards: No hazards identified.

14.7 Special precautions for user: No special precautions required.

14.8 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable, packaged goods

***15 Regulatory Information**

15.1 **Safety, health and environmental regulations/Legislation specific for the substance or mixture**

International Inventories:

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Silicon Dioxide	238-878-4	-	-	Listed	Listed	-	Listed	-	Listed	Listed	Listed

15.2 **Chemical safety assessment:** A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted.

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

***16 Other Information**

Key or legend to abbreviations and acronyms:

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances.
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
LD50 - Lethal Dose 50%
LC50 - Lethal Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic
vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
MARPOL - International Convention for the Prevention of Pollution from Ships

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