

**\*1 Product / Corporate Identification****1.1 Product:** Molecular Sieve Desiccant**1.2 Application:** Dehumidifying, moisture-proof**1.3 Manufacturer:**

Wisesorbent Technology LLC

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**\*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
Zeolite	100%	Al <sub>2</sub> O <sub>5</sub> Si	1318-02-1	215-283-8

**\*4 Emergency Measure****4.1 Description of first aid measures****Inhalation:** Remove to fresh air. 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.**Notes to physician:** This product is a desiccant and generates heat as it adsorbs water. The used product can contain material of a hazardous nature. Identify that material and treat symptomatically.**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
Zeolite	Not Applicable	TWA 10mg/m <sup>3</sup> inhalable particles TWA 3mg/m <sup>3</sup> respirable particles	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: In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter: NIOSH classification N-100 or if oil/liquid aerosols are present P-100 (42 CFR 84).

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: Khaki small particles

Odor: Odorless

PH Value: 8.0~11.0

Bulk Density: 600~800g/L

Boiling Point: Not applicable

Melting Point: Not applicable

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 contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc.

**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: > 32,000 mg/kg Species: Rat

**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.

**Fish:** LC50, 96 h (Pimephales promelas (fathead minnow)) : > 680 mg/l (Method: US EPA) Freshwater

**Aquatic invertebrates:** EC50, 48 h (Daphnia): > 100 mg/l (Method: OECD Test Guideline 202) Freshwater

**Aquatic plants:** EC50, 72 h (Desmodesmus subspicatus (green algae)): > 100 mg/l (Method: OECD Test Guideline 201) Freshwater

**Aquatic toxicity / Long term toxicity: Fish:** NOEC, 30 d (Pimephales promelas (fathead minnow)): > 86,7 mg/l (Method: US EPA, Early-life Stage)

**Aquatic invertebrates:** NOEC, 21 d (Daphnia magna (Water flea)): 32 mg/l (Method: OECD Test Guideline 211)

**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 substance No 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
Zeolite	1318-02-1	-	-	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/NDL** - 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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