



## SAFETY DATA SHEET

Revision Date: 4/19/2017

Version 2.0

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### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product Name Orange Indicating Silica Gel

#### Relevant identified uses of the substance or mixture and uses advised against

Identified uses Adsorbent

#### Details of the supplier of the safety data sheet

Company  
L2K Commerce  
350 N Palm St.  
Brea, CA 92821

#### Emergency telephone number

714-337-6239

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### SECTION 2. Hazards identification

Do not breathe dust or exceed the exposure limits

#### Classification of the substance or mixture

Not a hazardous substance or mixture

#### GHS label elements, including precautionary statements

Not a hazardous substance or mixture

#### Hazards not otherwise classified (HNOC) or not covered by GHS

None

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### SECTION 3. Composition/information on ingredients

**Chemical Description** Orange to Green Indicating Silica Gel

**Formula** SiO<sub>2</sub> + H<sub>2</sub>O + C<sub>25</sub>H<sub>30</sub>CIN<sub>3</sub>

**CAS (R Phrase Classification)** 112926-00-8 amorphous silica 98.2%, activated coloring agent 0.2% max.

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#### **SECTION 4. First aid measures**

**Inhalation:** Remove from source of exposure.

**Skin Contact:** Wash spillage from skin with soap and water

**Eyes Contact:** Wash immediately with copious amounts of water and obtain medical attention.

**Ingestion** Wash out mouth with water. Give several glasses of water to drink to dilute. If large amount swallowed or symptoms develop, obtain medical attention.

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#### **SECTION 5. Firefighting measures**

**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

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#### **SECTION 6. Accidental release measures**

**Personnel Precautions:** Do not inhale. Wear appropriate protective clothing. Dust mask essential if conditions are dusty. See section 8 for exposure limits.

**Spillages:** Contain spillage. Collect in suitable containers for recovery or disposal. During collection, avoid creating dust.

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#### **SECTION 7. Handling and storage**

**Handling:** Avoid creating any dust. Do not smoke. Do not breathe dust.

**Storage:** All containers must be closed air tight and kept in a dry place

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#### **SECTION 8. Exposure controls/personal protection**

##### **Occupational Exposure Standards:**

Synthetic amorphous silica

Silica amorphous, total inhalable dust: UK EH40: OES 6mg/m<sup>3</sup> 8h TWA.

## SDS For Orange Indicating Silica Gel

Silica amorphous, respirable dust: UK EH40: OES 2.4mg/m<sup>3</sup> 8h TWA.

Silica Gel: ACGIH: TLV 10mg/m<sup>3</sup> 8h TWA. Activation agent: ACGIH: 0.5mg/m<sup>3</sup> 8h TWA.

### Engineering Control Measures

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

### Respiratory Protection

Avoid inhalation of dust. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded.

### Hand Protection

Wear protective gloves.

### Eyes Protection

Wear suitable eye protection.

### Protection During Application

Handle in well ventilated conditions in accordance with good industrial hygiene and safety practices.

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## SECTION 9. Physical and chemical properties

**Aspect:** Beads

**Color:** Dry: yellow/orange Saturated: Green

**Odor:** Odorless

**pH:** 2-10 at 5% w/w in water

**Melting Point (oC):** >1000

**Boiling Point:** Not Applicable

**Flash Point:** Not Applicable

**Explosion Limits:** Not Applicable

**Bulk Density:** 720kg per cu meter (typical)

**Solubility in Water:** less 1.0% in weight

**Thermal Decomposition:** Stable except when saturated water released during regeneration

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## SECTION 10. Stability and reactivity

**Stability:** Hygroscopic

**Conditions to Avoid:** High temperatures in excess of 155oC

**Materials to Avoid:** None known

**Hazardous Decomposition:** Hygroscopic material

## **SECTION 11. Toxicological information**

### **Toxicity:**

The lethal dose for humans for synthetic amorphous silica is estimated at over 15,000mg/kg.

### **Health Effects:**

Inhalation Synthetic amorphous silica gel has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However existing medical conditions (eg asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.

### **Eye Contact:**

Dust may cause discomfort and mild irritation.

### **Skin Contact:**

Dust may have a drying effect on the skin.

### **Carcinogenicity:**

Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).

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## **SECTION 12. Ecological information**

### **Ecotoxicity:**

Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.

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## **SECTION 13. Disposal considerations**

### **Product Disposal:**

Product can be reactivated in an oven for re-use.

Dispose of in accordance with all applicable local and national regulations.

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## **SECTION 14. Transport information**

### **UN Class:**

Not classified as dangerous goods under the United Nations Transport Recommendations.

### **DOT (U.S.A.)**

Not a dangerous good.

**IMDG**

Not a dangerous good.

**Transport hazard classes**

Not applicable.

**Packing group**

Not applicable.

**Environmental hazards**

See section 12.

**Transport in bulk**

Not applicable.

**Special precautions for users**

Not applicable.

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**SECTION 15. Regulatory information**

**HMIS (U.S.A.)**

Health hazard : 1

Fire hazard : 0

Reactivity : 0

Personal protection : E

**National Fire Protection Association (U.S.A.)**

Health : 1

Flammability : 0

Reactivity : 0

**Toxic Control Substances Act (TSCA)**

This product complies with all applicable rules or orders under the Toxic Control Substances Act (TSCA).

## **SECTION 16. Other information**

### **Training advice**

Provide adequate information, instruction and training for operators.

### **Regional representation**

This information is given on the authorized Safety Data Sheet for your country.

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The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.