



SAFETY DATA SHEET

Revision Date: 05/06/22

Version 4.0

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 Transformer Breathers, Tank Vent Dryers, Drum Vent Dryers, Air Drying Applications and Laboratory Reagent

Details of the supplier of the safety data sheet

Company
L2K Commerce
590 Apollo St. Ste A
Brea, CA 92821

Emergency telephone number

714-337-6239

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

SECTION 3. Composition/information on ingredients

Chemical Description Orange to Green Indicating Silica Gel

Formula SiO₂ + H₂O + C₂₅H₃₀N₃Cl

Numbers of Identity

CAS-Nr.: 112926-00-8 (>99.8%) (Silica Gel)

CAS-Nr.: 548-62-9 (<0.2%) (Methyl Violet)

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.

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.

SECTION 6. Accidental release measures

Personnel Precautions: Do not inhale. Wear appropriate protective clothing. Dust mask is 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.

SECTION 7. Handling and storage

Handling: Avoid creating any dust. Do not smoke. During handling, electrostatic charges can accumulate (see BS 5958 for advice on the control of static). Do not breathe dust.

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

SECTION 8. Exposure controls/personal protection

Occupational Exposure Standards:

Synthetic amorphous silica

Silica amorphous, total inhalable dust: UK EH40: OES 6mg/m³ 8h TWA.

Silica amorphous, respirable dust: UK EH40: OES 2.4mg/m³ 8h TWA.

Silica Gel: ACGIH: TLV 10mg/m³ 8h TWA.

Activation agent: ACGIH: 0.5mg/m³ 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.

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

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).

SECTION 12. Ecological information

Ecotoxicity:

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

SECTION 13. Disposal considerations

Product Disposal:

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

This material is not classified as hazardous waste under EEC Directive 91/689/EEC.

Dispose of in accordance with federal, state, and local environmental control regulations.

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.

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.

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