

Orange Silica Gel

*1 Identification of the substance/preparation and the company

Orange Silica Gel

Application: Drying Agent

Wisepac Active Packaging Components Co., Ltd.

128 Luojin Road, Minhang District, Shanghai 200237, China

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Emergency: 86-13386290281

*2 Composition/information on ingredients

Chemical Description: Orange to green indicating silica gel

Formula: SiO₂

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

*3 Hazards identification

Do not breathe dust or exceed the exposure limits.

*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. If large amount swallowed or symptoms develop, consult a doctor.

*5 Fire-fighting measures

Extinguishing Media: Not applicable. Inorganic compound. Not combustible.

*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.

*7 Handling and Storage

Handling: Avoid creating any dust. Do not smoke. During handling electrostatic charges can accumulate.

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

*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.

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*9 Physical and chemical properties

Form:	Beads	
Color:	Dry: yellow/orange	Saturated: Green
Odor:	odorless	
PH Value:	2-10 at 5% w/w in water	
Melting point:	>1000°C	
Boiling point:	not determined	
Inflammability:	no	
Ignition temperature:	not determined	
Spontaneous flammability:	not determined	
Fire-promoting		
Properties:	no	
Explosive limits:	not determined	
Vapor pressure:	not relevant	
Bulk density:	720 kg/m ³ (typical)	
Solubility in water:	less 1.0% in weight	
Fat solubility:	not determined	
Partition coefficient		
n-octanol/water	not determined	

*10 Stability and reactivity

Stability: Hygroscopic

Conditions to Avoid: High temperatures in excess of 155°C

Materials to Avoid: None known

Hazardous Decomposition: Hygroscopic material

*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 sighting disease or toxic effect when exposure is kept below the permitted limits. However existing medical conditions(eg asthma, bronchitis) aggravated by exposure to dust. Effects of them may be greater, and occur at lower levels exposure in smokers compared to non-smoker.

Eye Contact: Dust may cause discomfort and mild irritaion.

Skin Contact: Dust may have a drying effect on the skin.

Carcinogenicity: Amorphous silica is not classifiable as to it carcinogenicity to humans (Group 3).

*12 Ecological information

Ecotoxicity: Synthetic amorphous silica is virtually inert. Has no known adverse effect on the environment.

*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 all applicable local and national regulations. This material is not classified as special waste under UK Special Waste Regulations 1996 and can be dispose of by landfill at an approved site.

*14 Transport information

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

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*15 Regulatory information

EC Classification: This product is not classified as dangerous.

S phrases: Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation of dust.

EINECS Listing: Preparation – all components listed.

TSCA Listing: Mixture – all components listed.

AICS Listing: Mixture – all components listed.

DSL/NDSL(Canadian) Listing: Mixture – all components listed.

*16 Other Information

None

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.