



山东招源硅胶有限公司
INTERNATIONAL SILICA GEL CO., LTD. (SHANDONG)

530, JINHUI ROAD, ZHAOYUAN, SHANDONG, CHINA

Tel: +86-535-8222489 8251155 Fax: +86-535-8246683 E-mail: sales@hysilicagel.com Http://www.isgco.net

MSDS for Silica Gel Orange

1. Product Identification

Name	Orange Silica Gel
Company	International Silica Gel Co., LTD.
Address	530, JinHui Road, Zhaoyuan, Shandong, China.
Telephone number	+86-535-8222489
Fax number	+86-535-8246683

2. Composition/Information on the components

Chemical Description	Orange to Green Indicating Silica Gel
Formula	SiO ₂ + H ₂ O + C ₂₅ H ₃₀ C ₁ N ₃
CAS (R Phrase Classification)	112926-00-8 amorphous silica 98.2%, activated colouring agent 0.2% max.

3. Health Hazard 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

5. Fire Fighting Measures

Extinguishing Media	Not applicable. Inorganic compound. Not combustible.
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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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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.)
Storage	All containers must be closed air tight and kept in a dry place

8. Exposure Control / Personal Protection

Occupational Exposure Standards:

Synthetic amorphous silica	Silica amorphous, total inhalable dust: UK EH40: OES 6mg/m ³ 8h TWA. Silica amorphous, respirable dust: UK EH40: OES 2.4mg/m ³ 8h TWA. Silica Gel: ACGIH: TLV 10mg/m ³ 8h TWA. Activation agent: ACGIH: 0.5mg/m ³ 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.

9. Physical and Chemical Properties

Aspect	Beads
Colour	Dry: yellow/orange Saturated: Green
Odour	Odourless
pH	2-10 at 5% w/w in water
Melting Point (°C)	>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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10. Stability and Reactivity
- | | |
|-------------------------|--------------------------------------|
| Stability | Hygroscopic |
| Conditions to Avoid | High temperatures in excess of 155oC |
| Materials to Avoid | None known |
| Hazardous Decomposition | Hygroscopic material |
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11. Toxicological Information
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|---------------------------|---|
| 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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12. Ecological Information
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|-------------|---|
| Ecotoxicity | Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment. |
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13. Disposal
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| 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 disposed of by landfill at an approved site. |
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14. Transport Information
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| UN Class | Not classified as dangerous goods under the United Nations Transport Recommendations. |
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15. Information on Regulation
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|-----------------------------|--|
| 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 |
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16. Other Information
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| MSDS first issued | 18th April 2000 |
| MSDS first revision | 20th November 2002 |

Date: Feb. 14, 2008

山东招源硅胶有限公司
INTERNATIONAL SILICA GEL CO., LTD. (SHANDONG)

温亭功
