

LANDSCAPUS

Experts In Road Safety

ISO 9001 – ISO 14001

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND NAME OF THE COMPANY/UNDERTAKING

Product Name Glass Bead Microspheres Asshto Type I M-247

Use Used in various industrial applications, including road safety markings, blasting media, and functional additives.

Manufacturer/Supplier:

Landscapus (TANGSHAN) Glass Beads Factory
Add.: Leting, Tangshang, Hebei, P.R. China

Customer Service / Emergency Contact:

Telephone: +86 (0)10 61428699

Fax: +86 (0)22 69450742

E.mail: tech@landscapus.com

2. HAZARDS IDENTIFICATION

EC Classification Not classified as dangerous for supply/use.

Dust may cause irritation. Although Cristobalite is not hazardous considering its granulometry, any respirable dust generated by processing Cristobalite may cause health effect. Prolonged and/or massive inhalation of respirable Cristobalite may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Exposure to dust should be monitored and managed. Spilled material is slippery.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No.	EC Classification
Glass oxide; Glass	>75	65997-17-3	2660460	Not applicable.
Cristobalite	<25	14464-46-1	2384554	Not applicable.

4. FIRSTAID MEASURE

Eye Contact Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If symptoms persist, obtain medical attention.

Skin Contact Wash affected skin with plenty of water. If symptoms occur obtain medical attention.

Ingestion Not applicable.

Inhalation In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms develop, obtain medical attention.

5. FIRE-FIGHTING MEASURES

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General: Non-combustible.
Extinguishing Media As appropriate for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection Wear suitable protective clothing. Wear eye/face protection.
General: Caution - spillages may be slippery. Avoid generation of dust.
Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling Avoid contact with eyes, skin and clothing. Do not breathe dust.
Avoid generation of dust. Wash thoroughly after handling.
Storage Keep container tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits OEL for respirable Cristobalite dust in the workplace atmosphere is 0.3 mg/m³ in the United Kingdom. For other countries, please consult list as attached.

Respirators Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Skin Contact Wear suitable protective clothing and gloves. For example cotton or rubber .

Eye Protection Chemical goggles.

Other Wear protective equipment to comply with good occupational hygiene practice.
Do not eat, drink or smoke at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Glass solid .
Colour White.
Odour Odourless.
pH (Value) Not applicable.
Flash Point (°C) [Closed cup] Not applicable.
Flammable Limits (Lower) (%v/v) Not applicable.

Solubility (Water) Insoluble.

10. STABILITY AND REACTIVITY

Stability Stable.
Hazardous Decomposition Product(s) None known.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity	When tested for primary irritation potential, a similar material was practically non-irritating to the eyes and slightly irritating to the skin. The acute oral toxicity of this product has not been tested. A similar spherical glass powder was nontoxic to rats at 5,000 mg/kg. All animals survived, gained weight and appeared active and healthy. There were no signs of gross toxicity, adverse pharmacologic effects or abnormal behavior.
Carcinogenicity Information	There are no known reports of carcinogenicity of nonfibrous glass. Prolonged and/or massive exposure to respirable quartz or cristobalite containing dust may cause silicosis, a nodular pulmonary fibrosis caused by the deposition in the lungs of the fine respirable particles. IARC assessment: Crystalline silica (quartz) is carcinogenic to humans (Group 1).
Long Term Exposure	There are no known reports of subchronic toxicity of nonfibrous glass. Quartz may cause serious damage to health by prolonged exposure through inhalation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No environmental hazards have been reported or known.
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13. DISPOSAL CONSIDERATIONS

Recommended:	The waste is considered to be non hazardous. Disposal should be in accordance with local, state or national legislation.
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14. TRANSPORT INFORMATION

Proper Shipping Name	NOT CLASSED AS DANGEROUS FOR TRANSPORT.
ICAO/IATA	NOT CLASSED AS DANGEROUS FOR TRANSPORT.

15. REGULATORY INFORMATION

EC Classification	Not classified as dangerous for supply/use.
Hazard Symbol	Not applicable.
TSCA Inventory Status: Reported/Included.	
AICS Inventory Status: Reported/Included.	
DSL/NDSL Inventory Status: Reported/Included.	
HMIS: 0,0,0	

16. OTHER INFORMATION

The following sections contain revisions or new statements:	All sections.
MSDS data revised	March 15, 2014

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