

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name TTB-1325D Type III
CAS No. 65997-17-3
EINECS No. 2660460

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

Identified use(s) Used mainly in road safety markings for retro-reflectivity purposes.

1.3 Details of the supplier of the safety data sheet

Company Identification Potters Industries LLC
P. O. Box 841
Valley Forge, PA 19482 USA
Telephone +1 610-651-4700
E-Mail (competent person) sds.uk@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No. Potters Industries LLC +1 610-651-4200
ChemTrec (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

Hazards summary Dust may cause irritation. Caution - spillages may be slippery.

2.2 Label elements

Signal word(s) Not applicable

Hazard statement(s) Not applicable

Precautionary statement(s) Not applicable

2.3 Other hazards Spilled material can make floors slippery.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	EC Classification and Risk Phrases
Glass Oxide; Barium Titanate Glass	>99	65997-17-3	2660460	Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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.
Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms develop, obtain medical attention.
Ingestion	Do not induce vomiting. If symptoms develop, obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Dust may cause irritation. Caution - spillages may be slippery. Dust may cause discomfort and mild irritation.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media	As appropriate for surrounding fire.
Unsuitable extinguishing Media	None known.

5.2 Special hazards arising from the substance or mixture Spilled material can make floors slippery.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing. Wear eye/face protection.

6.2 Environmental precautions Not applicable.

6.3 Methods and materials for containment and cleaning up Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

6.4 Reference to other sections Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid contact with eyes, skin and clothing. Avoid generation of dust. Wash thoroughly after handling.
Wear protective equipment to comply with good occupational hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities Do not eat, drink or smoke at the work place.
Keep container tightly closed and dry.

7.3 Specific end use(s) Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
	UK EH40: Dust Total inhalable: WEL 10mg/m ³ 8h TWA. Respirable: WEL 4mg/m ³ 8h TWA. ACGIH: Particulates not otherwise classified Inhalable TLV 10mg/m ³ 8h TWA. Respirable: TLV 3mg/m ³ 8h TWA. OSHA: Inert or Nuisance Dust Total dust : PEL 15mg/m ³ 8h TWA. Respirable fraction : PEL 5mg/m ³ 8h TWA.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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.

8.2.2 Personal Protection

Respiratory protection

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.

Eye/face protection

Safety spectacles

Skin protection

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Glass Powder. Off-white / Amber.
Odour	Odourless.
Odour Threshold (ppm)	Not applicable.
pH (Value)	Not applicable.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Approx 730 C
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-combustible.
Vapour pressure (Pascal)	
Vapour Density (Air=1)	Not applicable.
Solubility (Water)	Insoluble.
Partition Coefficient	Not applicable.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Avoid contact with strong acids.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	Not applicable.
10.4 Conditions to avoid	Not applicable.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity

Ingestion

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.



Inhalation	No data. May cause irritation to the respiratory system.
Skin Contact	Dust may cause irritation
Eye Contact	Dust may cause irritation
Sensitisation	Not sensitising.
Carcinogenicity	There are no known reports of carcinogenicity of nonfibrous glass.
Reproductive toxicity	No evidence of reproductive toxicity or developmental toxicity.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No environmental hazards have been reported or known.
12.2 Persistence and degradability	This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

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

14.1 UN number	Not applicable.
14.2 Proper Shipping Name	NOT CLASSED AS DANGEROUS FOR TRANSPORT.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included.

AICS Inventory Status: Reported/Included.

DSL/NDSL Inventory Status: Reported/Included.

German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).

HMIS: 0,0,0

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 11/2016

The following sections contain revisions or new statements: All sections.

EC Classification No. 67/548/EEC Not classified as dangerous for supply/use.

GHS Classification Not classified as dangerous for supply/use.

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