

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT INFORMATION

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Distributor's Name: BELL & MACKENZIE CO. LTD.	Emergency Phone #: (905) 527-6000
Distributor's Address: 500 Sherman Ave. N., P.O. Box 844, L.C.D. #1, Hamilton, Ontario L8N 3N9	
Common Name: GLASS BEADS/SPHERES	Chemical Family: N/App
Trade Name & Synonyms: GLASS BEADS	Product Use(s): Highway pavement markings, industrial applications

SECTION II - HAZARDOUS INGREDIENTS

Material or Components	%	OSHA (PEL)	ACGIH (TLV)
Glass Oxide Cas #65997-17-3	> 99	15mg/m ³ , nuisance dust	10 mg/m ³ , nuisance dust
	Respirable Fraction	5 mg/m ³	5 mg/m ³
Contains no free silica. All components are amorphous and non-crystalline			
HMIS/NPCA/NFPA Hazard Rating		Hazard Rating Scale	
Health:	0	0 = minimal	3 = serious
Fire:	0	1 = slight	4 = severe
Reactivity:	0	2 = moderate	

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Physical State:	Glass Spheres	Melting Point:	760°C/1,400°F
Appearance and Odor:	Colorless - No odor	Freezing Point:	n/a
Odor Threshold (ppm):	n/a	pH Level:	n/a
Specific Gravity (H ₂ O = 1):	2.46-2.49 g/cc	% Volatile by Volume:	n/a
Vapour Pressure (mm):	n/a	Solubility in Water:	Insoluble
Vapour Density (Air = 1):	n/a	Coefficient of water/oil distribution:	n/a
Evaporation Rate (Butyl Acetate = 1):	n/a		

SECTION IV - FIRE & EXPLOSION HAZARD DATA

Special Fire Fighting Procedures:	None	Flammable Limits:	n/a
Unusual Fire & Explosion Hazards:	None	Flash Point:	None
Transportation of Dangerous Goods Classification:	n/a	Extinguishing Media:	None required
		Explosion Limits:	n/a

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SECTION V - REACTIVITY DATA

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Stability:	Stable	Hazardous Decomposition Products:	n/a
Incompatibility (Materials to Avoid):	n/a	Reactivity and conditions to avoid:	
Hazardous Polymerization:	Will not occur		
Phosphoric, Fluorosilic, Hydrofluoric Acid and hot strong alkaline solutions attack glass.			

SECTION VI - HEALTH HAZARD DATA

Carcinogenicity:	NTP: No	OSHA Regulated: No	IARC Monographs: No
Routes of Entry:	Skin: Open lesion	Inhalation: Yes	Ingestion: Yes
Threshold Limit Value:	None established.		
Health Hazards (Acute and Chronic):	None		
Medical Conditions Aggravated:	Sinus problems, chronic lung conditions may be aggravated by exposure to high levels of dust.		
Signs & Symptoms of Exposure:	May be dehydrating to nose or throat		
Emergency & First Aid Procedures			
Eye Contact:	Immediately flush eyes thoroughly with water or an ophthalmic saline solution.		
Skin Contact:	Wash skin with cold water & soap if irritation occurs.		
Inhalation:	Remove affected person(s) to fresh air source.		
Oral Intake:	Rinse mouth out with water.		
<i>If symptoms persist, contact a physician or other medical personnel.</i>			

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled:	No special steps required
Waste Disposal Method:	Material can be placed in any type container and deposited in any landfill area according to federal, state/provincial and local regulations regarding waste disposal.
Other Precautions:	When transferring material, care should be taken to avoid dusting.
Respiratory Protection:	Use NIOSH approved dust mask or respirator when airborne dust is generated. Observe OSHA regulations for respirator use (29 CFR 1910.134).

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SECTION VIII - CONTROL MEASURES

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Respiratory Protection:	Not required. If desired, any OSHA approved respirator can be used.
Ventilation:	Not required.
Eye Protection:	Safety glasses or goggles are recommended
Protective Gloves:	Not required.
Other Protective Equipment:	Not required.
Work Hygiene Practices:	Use good cleanliness procedures.
Other Precautions:	None.

"The opinions expressed herein have been compiled from sources which the company believes to be dependable, and is accurate and reliable for the normal and intended use of this product as of the date of this Material Safety Data Sheet. However, the company makes no warranty of any kind with respect to the accuracy or completeness of the data and assumes no responsibility for any liability or damages relating thereto. It is the user's obligation to determine and observe the conditions of safe use and disposal of the product by their operations."

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