

MATERIAL SAFETY DATA SHEET
GLASS BEADS: 1.9 INDEX OF REFRACTION



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SECTION I CHEMICAL IDENTITY

NAME	Product Reference	% By Weight
M-Beads (Glass Bead)	MBE1.93-CLR	> 99
Chemical Formula: TiO_2 -BaO- SiO_2	Titanium dioxide& Barium Carborate&Silica	TiO_2 30-33% BaO 45-55% SiO_2 12-15%
	CAS number: TiO_2 : 13463-67-7 BaO: 1304-28-5; SiO_2 : 112945-52-5 ;	

SECTION II HAZARDOUS INGREDIENTS

NAME	OSHA PEL	ACGIHTLV
Nuisance Dust (particles not otherwise classified)	15 mg / m3	10 mg / m3
Nuisance Dust (respirable fraction)	5 mg / m3	N/AP

Contains no free silica. All components are amorphous and non crystalline. No components of this product are SARA Title III reportable substances.

SECTION III PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white / amber powder / granular material
Odo	Odorless
Specific Gravity	4.2
Flash Point	N/AP
Solubility	Insoluble in Water
Boiling Point	N/AP
Vapor Pressure	N/AP
Vapor Density	N/AP
Evaporation Rate	N/AP

SECTION IV FIRE AND EXPLOSION DATA

Flammable Limits	N/AP
Extinguishing Media	N/AP
Special Fire-fighting Procedures	N/AP

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SECTION V REACTIVITY INFORMATION

Stability	Stable
Incompatibility	Hydrofluoric, fluorosilicic and phosphoric acids and hot strong alkaline solutions Insoluble in water and solvent

SECTION VI HEALTH HAZARD INFORMATION

Routes of Entry	Inhalation
Health Hazard (Acute & Chronic)	Repeated or prolonged inhalation of dust in excess of permissible exposure limits may result in irritation to the respiratory tract.
Carcinogenic Potential	Not Listed by OSHA, NTP or IARC
Signs and Symptoms of Exposure	Irritation of eyes and respiratory tract
Other Health Effects	Chronic respiratory conditions may be aggravated by exposure to high concentrations of dust.

FIRST AID PROCEDURE

Eye Exposure	Flush with copious amounts of water
Inhalation	Move to fresh air

SECTION VII HANDLING AND USE PRECAUTIONS

Steps to be taken in accidental spill	Avoid excess dusting. Sweep or vacuum spilled material
Waste disposal method	May be disposed of in approved landfill in accordance with federal, state and local regulations.
Precautions to be taken in handling and storage	Avoid excessive dusting

SECTION VIII CONTRO MEASURES

Respiratory Protection	NIOSH / OSHA approved dust mask if permissible exposure levels are exceeded.
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HEALTH 0 FLAMMABILITY 0 REACTIVITY 0

The information within this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties and handling of this product under the recommended conditions of use. Any modifications of product use or method of application is the responsibility of the user. Seller makes no other warranty or representation of any kind, expressed or implied, concerning this product. The Material Safety Data Sheet was prepared in compliance with the OSHA Hazard Communication Standard.