

Material Safety Data Sheet

Conforms to ISO 11014-1 and the South African Occupational Health and Safety Act (Act 85 of 1993)

STARBEAD® INDUSTRIAL BEADS

COMPANY DETAILS

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Trade name: STARBEAD® Industrial Beads

CAS Number: 65997-17-3

Chemical Family: Soda-lime-silica glass

NOISH Number: Not available

Chemical Name: Not applicable

Hazchem Code: Not available

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	Formula	Cas #	Typical Composition
SiO ₂ Not less than 70%	SiO ₂	7631-86-9	72.55%
CaO & MgO not less than 8%	CaO	1305-78-8	7.02%
	MgO	1309-48-4	3.02%
Na ₂ O & K ₂ O, & Al ₂ O ₃ & Fe ₂ O ₃ Not more than 18%	Na ₂ O	12034-12-7	13.78%
	K ₂ O	12136-45-7	0.88%
	Al ₂ O ₃	1344-28-1	2.08%
	Fe ₂ O ₃	1309-37-1	0.18%



SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview:	Non-combustible glass beads. Spilt material is extremely slippery.
Eye Contact:	Non-irritating to the eyes.
Skin Contact:	Slightly irritating to skin.
Inhalation:	May cause irritation
Ingestion:	No known hazard
Chronic Hazards:	No known chronic hazards. not listed by ntp, iarc or osha
Physical Hazards:	Spilled material is extremely slippery.

SECTION 4 – FIRST AID MEASURES

Eye:	Use water to flush eyes 15 min if contact
Skin:	Use water to flush skin if contact. Take off the contaminated clothing and Shoes. Get medical treatment if irritation occurs wash clothing before reuse. Thoroughly clean shoes before reuse.
Inhalation:	Na
Ingestion:	Na

SECTION 5 – FIRE FIGHTING MEASURES

Flammable limits:	Non-combustible.
Extinguishing media:	Compatible with all extinguishing media
Hazards to fire-fighters:	See section 3 for information on hazards if this material is present in the area of a fire.
Fire-fighting equipment:	Rubber boots with slip-resistant soles is suggested to be used if this material is present in a fire.



SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal protection:	Rubber boots with slip-resistant soles and NIOSH dust respirator IF dust occurs. See section 8
Environmental hazards:	Sinks in water. No known hazard to aquatic life.
Small spill cleanup:	Shovel or sweep up spilled material carefully and place in suitable container. Container should be closed. Use appropriate personal Protective equipment (PPE). See section 8.
Large spill cleanup:	Keep unnecessary people away; isolate hazard area and deny entry. Do not walk through spilled material. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate personal protective equipment (ppe). See section 8.
CERCLA RQ:	There is no CERCLA reportable quantity for this material.

SECTION 7 – HANDLING AND STORAGE

Handling/Storage	Keep in waterproof packaging and protect from damage.
Suitable Material	Clean fibre pr plastic container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls:	Use with adequate ventilation. Containers should be closed. Eyewash station should be within direct access.
Respiratory protection:	Use a NIOSH-approved dust respirator if dust occurs. Observe OSHA regulations for respirator use (29 C.F.R. §1910.134).
Skin protection:	Body-covering clothing should be worn
Eye protection:	Safety glasses should be worn

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent rounded particles
Odour:	None
pH:	Expected to be neutral in water.
Boiling Point:	Not Applicable
Melting Point:	± 730 °C



Flash Point:	Non-combustible
Flammability:	Not flammable
Autoflammability:	Not applicable
Explosive Properties:	None
Oxidising Properties:	None
Vapour Pressure:	Not applicable
Density:	$\pm 2.5 \text{ g/cm}^3$
Solubility in Water:	Insoluble

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None
Incompatible Chemicals:	HF Acid
Hazardous Decomposition Products:	None

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute data:	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 Material was nontoxic to rats at 5,000 mg/kg. All animals survived, gained Weight and appeared there were no Signs of gross toxicity, adverse Pharmacologic effects or Abnormal behavior
Subchronic data:	There are no known reports of subchronic toxicity of nonfibrous glass.
Special studies:	There are no known reports of carcinogenicity of nonfibrous glass. Nonfibrous glass is not listed by IARC, NTP or OSHA as a carcinogen.

SECTION 12 – ECOLOGICAL INFORMATION

ECO toxicity:	No reports records Ecotoxicity of nonfibrous glass.
Environmental fate:	This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.
Physical/chemical:	Sinks in water. Insoluble in water.



SECTION 13 – DISPOSAL CONSIDERATIONS

Classification: This material is not a hazardous waste.

Disposal method: Dispose according to regulations

SECTION 14 – TRANSPORT INFORMATION

No special precautions necessary. It is recommended to keep bags closed and dry bulk loads covered to prevent dust generation.

SECTION 15 – REGULATORY INFORMATION

SARA Title III: Not an extremely hazardous substance under §302 not a toxic chemical under §313.

SECTION 16 – OTHER INFORMATION

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