

## Safety Data Sheet

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

# STARBLAST (SINTERBLAST)

### COMPANY DETAILS

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### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Trade name: Starblast® CAS Number: 92797-42-7  
Chemical Family: Aluminosilicate NOISH Number: Not available  
Chemical Name: Bauxite Hazchem Code: Not available  
Synonyms: Angular Sintered Bauxite UN Number: Not available  
Ceramic Proppant

### SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

	Ingredients	CAS N°	Concentration (%)
1	Bauxite ( $A_1_2O_3x H_2O$ )	92797- 42 - 7	100

### SECTION 3 – HAZARDS IDENTIFICATION

#### Effects of Over Exposure:

**Inhalation:** May cause drying of mucous membranes and respiratory tract irritation  
**Eyes Contact:** Airborne dust may cause irritation to eyes  
**Skin Contact:** Prolonged contact with the skin may cause irritation  
**Ingestion:** Not recommended.

#### HMIS Hazard Rating for products:

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0



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## SECTION 4 – FIRST AID MEASURES

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**Inhalation:** Immediate effects are not expected. If high concentrations of dust are inhaled, remove to fresh air.  
If breathing problems occur, get medical attention

**Eyes Contact:** Flush eyes with large amounts of water. Consult a physician if irritation persists

**Skin Contact:** Wash the affected area with soap and water. Get medical attention if irritation occurs

**Ingestion:** Seek medical attention if large quantities are ingested

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## SECTION 5 – FIRE FIGHTING MEASURES

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**Flammable properties:** Not flammable

**Flash Point:** Not Applicable

**Extinguisher Media:** The product is stable but should be conditioned in big bags of polypropylene or in paper sacks; the use of CO<sub>2</sub>, Dry Chemical and Foam is recommended.

**Special Fire Fighting Procedures:** Not Applicable

**Fire and Explosion Hazards:** Not Applicable

**Hazardous decomposition Products:** Not Applicable

**Fire Fighting Instructions:** Not Applicable

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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**Personal precautions**

**Removal of Font of Ignition:** Not Applicable

**Control of Dust:** To avoid generation or dust inhalation; use ventilation when necessary to control the dust; do not eat, drink or smoke in the workplace

**Prevention of the Inhalation and of the Contact with the Skin, Mucous and Eyes:**  
Use equipments of individual protection according to section 8

**Precaution to the Middle-Atmosphere:**

**Systems of Alarm:** Not Applicable

**Methods for Cleaning:** Not Applicable

**Recovery:** Not Applicable

**Neutralization:** Not Applicable

**Disposition:** Not Applicable

**Prevention of Secondary Dangers:** In case of damage in the packing, the product cause the ground to become slippery.



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## SECTION 7 – HANDLING AND STORAGE

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### Handling

#### Technical measures:

Special care should be taken with the fastening of the pallets, to avoid bruises due to the projections of the pallets

**Prevention of the Worker's Exhibition:** use equipments of individual protection according to section 8

**Prevention of Fire and Explosion:** Not Applicable

#### Precautions for the Handle Safe: to avoid generation or dust inhalation:

Ensure adequate ventilation when necessary to control the dust. Do not eat, drink or smoke in work place

#### Orientations for the Handle Safe: Individual Man:

Use mask and safety goggles when dust exceeds tolerance levels.

### Storage:

#### Appropriate Technical measures:

Storage in original packing closed in dry ventilated place.  
Respect maximum piling up of three pallets or big bags.

### Conditions of Storage

#### Appropriate:

Packing: polypropylene Big Bag or paper sacks  
Identification: to use symbol of alert (NFPA 704)  
Piling up: maximum of 3 big bags  
Validity: Unlimited

#### To Avoid:

Any not recommended packing type;  
In case of damage in the packing, the product can cause the ground to become slippery.

**Products and Incompatible Materials:** Not Applicable

### Safe materials for Packing

**Recommended:** Big Bags of Polypropylene or Sacks of Paper

**Inadequate:** any type of packing that is not recommended

### Symbol of Alert [NFPA 704]



## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

	Ingredients	OSHA PEL mg/m <sup>3</sup>	ACGIH TLV mg/m <sup>3</sup>
1	Aluminium Oxide $\alpha$ – $\text{Al}_2\text{O}_3$	15 (Total) 5 (Respirable)	10 (Total) 3 (Respirable)
2	Hematite $\alpha$ - $\text{Fe}_2\text{O}_3$	Unknown	Unknown
3	Meghemite $\gamma$ – $\text{Al}_2\text{O}_3$	Unknown	Unknown

Engineering Control: Not Applicable

Protective Equipment of Individual Protection

Respiratory: Mask for dust  
Hands Protection: Safety Gloves  
Eyes Protection: Safety Glasses with side shields

Clothing Requirements: protective clothing is normally not necessary for foreseeable conditions of use

Special precautions: Not Applicable

Hygiene Measures: Normal practice

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid  
Appearance: Black  
Odor: Odourless  
PH: Neutral

Solubility (with indication of the solvents):

Water Solubility: Insoluble at 20°C;

Sea/Water Solubility: Insoluble at 20°C;

Alkaline Solubility: \* 1g of sample en 10 mL of NaOH 50% / 24 h / Temp. Set = > 0.15;

Acid Solubility: \* 5g of sample in 100ml of 12HCl + 3%HF / 30min., Temp. 66°C = > 6.50%.

Specific Gravity (H<sub>2</sub>O=1): 3.57 g/cm<sup>3</sup>  
Bulk Density: 1.91 g/cm<sup>3</sup>  
Boiling Point: Not Applicable  
Melting Point: Not Applicable  
% Volatile by: Not Applicable  
Evaporate Rate: Not Applicable  
Vapor Density (Air=1): Not Applicable  
Vapor Pressure (mm Hg): Not Applicable



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## SECTION 10 – STABILITY AND REACTIVITY

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**Stability:** Stable - This product is stable in the storage conditions and the handle in the section 7

- **Reactivity / Incompatibility:** Not Applicable

- **Hazardous Decomposition Products:** Not Applicable

- **Hazardous Polymerization:** Not Applicable

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## SECTION 11 – TOXICOLOGICAL INFORMATION

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Acute Effects:

Eyes: No hazard in normal industrial use

Skin Contact: No hazard in normal industrial use

Inhalation: No hazard in normal industrial use

Ingestion: No hazard in normal industrial use

Chronic Exposure: This product should be considered non-hazardous and has no known chronic effects

Target Organs: No applicable

Carcinogenicity: No applicable

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## SECTION 12 – ECOLOGICAL INFORMATION

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This product poses no significant environmental contamination impact during use, handling, and proper disposal

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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Waste Disposal Methods: Waste disposal should be in accordance with existing Federal, State, and Local environmental regulations

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## SECTION 14 – TRANSPORT INFORMATION

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National and International regulations

Terrestrial: Not Classified

Fluvial: Not Classified

Marine: Not Classified

Aerial: Not Classified

U. S. Department of Transportation [DOT]: Not Classified

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## SECTION 15 – REGULATORY INFORMATION

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Sara Hazard Category

Immediate (Acute) Health Hazard: Yes

Delayed (Chronic) Health Hazard: No

Fire Hazard: No

Reactivity Hazard: No

Sudden Release of Pressure: No

**Sara Section 313 Notifications**

This product does not contain toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**TSCA Status**

All components of this product are listed, automatically included, or are exempt from listing on the TSCA inventory.

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**SECTION 16 – OTHER INFORMATION**

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