Material 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

Name:	Blastrite (Pty) Ltd.,	Emergency Tel:	08600 BLAST
Address:	P O Box 5515	Tel Number:	+27 (0)21 417 1700
	Cape Town, 8000	Fax Number:	+27 (0)21 425 2970
	South Africa		
e-mail:	sales@blastrite.co.za		
Website:	http://www.blastrite.com		

SECTION 1 –PRODUCT AND COMPANY IDENTIFICATION

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

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

	Ingredients	CAS Nº	Concentration (%)
1	Aluminium Oxide α – $A1_2O_3$	1344– 28 – 1	>60
2	Hematite α – Fe_2O_3	1317 – 60 - 8	1 to 15
3	Meghemite y – $A1_2O_3$	unknown	O α 8

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

SECTION 4 – FIRST AID MEASURES

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

SECTION 5 – FIRE FIGHTING MEASURES

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_2, 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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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 work place

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.

SECTION 7 – HANDLING AND STORAGE

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/m³	ACGIH TLV mg/m³
1	Aluminium Oxide *a* – $A1^2O^3$	15 (Total) 5 (Respirable)	10 (Total) 3 (Respirable)
2	Hematite *a* - Fe^2O^3	Unknown	Unknown
3	Meghemite *y* – $A1^2O^3$	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 (H2O=1): 3.57 g/cm3
Bulk Density: 1.91 g/cm3
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

SECTION 10 – STABILITY AND REACTIVITY

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

SECTION 11 – TOXICOLOGICAL INFORMATION

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

SECTION 12 – ECOLOGICAL INFORMATION

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

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

National and International regulations

Terrestrial:	Not Classified
Fluvial:	Not Classified
Marine:	Not Classified
Aerial:	Not Classified
U. S. Department of Transportation [DOT]:	Not Classified

SECTION 15 – REGULATORY INFORMATION

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.

SECTION 16 – OTHER INFORMATION

The information and recommendations presented in this data sheet are to the best of our knowledge and belief accurate and reliable, but do not constitute a warranty. None of our representatives or agents are authorised to give any guarantee or warranty or make any representation in addition or contrary to the above, and we do not accept liability for claims of any kind for any loss, including, without limitation, consequential loss, injury or damage arising from the use of the information or recommendations, or of the products, which are the subject matter hereof. The products are sold subject to our standard conditions of sale and tender, copies of which are available on request.