

## Material Safety Data Sheet

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

# Microblast®

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### COMPANY DETAILS

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### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

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Trade name: Microblast®	CAS Number: Not available
Chemical Family: Garnet – Iron Aluminium Silicate	NOISH Number: Not available
Chemical Name: Not applicable	Hazchem Code: Not available
Synonyms: None	UN Number: Not available

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### SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

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Chemical Name	<u>CAS No.</u>	<u>Percent</u>	<u>Hazardous</u> <sup>1, 2</sup>
Composition Measured as Oxides:			
Silica, SiO <sub>2</sub> (total)	7631-86-9	33	Yes, only as crystalline form
Silica, crystalline	14808-60-7	None	
Ferric Oxide, Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	33	
Titanium Oxide, TiO <sub>2</sub>	13463-67-7	1	
Alumina, Al <sub>2</sub> O <sub>3</sub>	1344-28-1	23	
Calcium Oxide, CaO	1305-78-8	4	
Magnesium Oxide, MgO	1309-48-4	4	
Manganese Dioxide	1313-13-9	1	

1. The material is a mineral sand and does not contain the individual oxides.
2. The product contains a variety of trace heavy metals but they are not available to the environment, except in the presence of strong acids.



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### **SECTION 3 – HAZARDS IDENTIFICATION**

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Main hazard:	May cause irritation to skin and eyes
Flammability:	Not flammable
Chemical hazard:	None
Biological hazard:	Not known
Reproduction hazard:	Not known
Eye effects:	May cause irritation
Health effects – skin	May cause irritation particularly in very sensitive individuals
Health effects – ingestion	May release some heavy metals in stomach acid
Health effects – inhalation	Inhalation of dust may cause coughing and sneezing. This product may aggravate respiratory disorders.
Carcinogenicity	Not known
Mutagenicity	Not known
Neurotoxicity	Not known

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### **SECTION 4 – FIRST AID MEASURES**

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Product in eye:	Wash thoroughly with running water. Get medical advice, if irritation develops.
Product on skin:	Flush skin with plenty of water. Get medical advice, if irritation develops.
Product ingested:	DO NOT INDUCE VOMITING! Give large quantities of water or milk, if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Product inhaled:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

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### **SECTION 5 – FIRE FIGHTING MEASURES**

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Extinguishing media:	Not a fire hazard - use any means suitable to extinguish a surrounding fire.
Special hazards:	None.
Protective clothing:	In the event of any fire, wear full protective clothing and an approved self-contained breathing apparatus.



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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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- Personal precautions: Ventilate area of spill. Keep unnecessary and unprotected persons away from the area of the spill. Wear protective clothing as detailed in Section 8.
- Environmental precautions: As far as possible prevent the material entering a watercourse or storm water channel.
- Small and large spills: Pick up and place in suitable container, e.g. skip or drum, for reclamation or disposal, using a method that does not generate dust. Light residues can be washed with copious quantities of water, particularly off vegetation, in order to minimise damage. The water should preferably be discharged to sewer, but if not available, small amounts can be discharged to watercourse.

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## SECTION 7 – HANDLING AND STORAGE

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- Handling/Storage Keep in waterproof packaging and protect from damage. Keep in a cool, dry, ventilated area away from heat, moisture, and incompatible chemicals
- Suitable material Bulk bags or any other container that will limit contact with moisture.

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## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

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- Occupational exposure limits: Personal exposure should be kept below both 10 mg/m<sup>3</sup> 8-hour time-weighted average total inhalable dust and 5 mg/m<sup>3</sup> time-weighted average respirable dust.
- Engineering control measures: Use exhaust ventilation to reduce dust levels below exposure limits in workplaces with poor ventilation and dusty conditions.
- Personal protection – respiratory: If exposure limit exceeded, a full-face piece respirator must be worn.
- Personal protection – hand: See below – skin.
- Personal protection – eye: Use chemical safety goggles and/or full-face shield, where dusting is possible. Maintain eye wash fountain and quick drench facilities in work area.
- Personal protection – skin: Impervious clothing should be worn, including boots, gloves, lab coat, apron, or overalls, as appropriate to avoid skin contact.



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## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance:	Dark pink particles of glassy appearance
Odour:	None
pH:	Expected to be neutral in water
Boiling Point:	Not applicable
Melting Point:	± 1260 °C
Flash Point:	Non-combustible
Flammability:	Not flammable
Autoflammability:	Not applicable
Explosive Properties:	None
Oxidising Properties:	None
Vapour Pressure:	Not applicable
Density:	4.2
Solubility in Water:	Insoluble
Solubility Solvents:	Not applicable
Solubility Coefficient:	Not applicable

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## **SECTION 10 – STABILITY AND REACTIVITY**

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Stability:	Stable
Conditions to Avoid:	Incompatible chemicals
Incompatible Chemicals:	Strong Inorganic and Organic Acids may release heavy metals that are present in the sand into the environment.
Hazardous Decomposition Products:	None



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## SECTION 11 – TOXICOLOGICAL INFORMATION

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Acute Toxicity:	No data available
Skin and Eye Contact:	No data available
Carcinogenicity:	Not expected to be carcinogenic - crystalline silica not present.
Mutagenicity:	No data available
Reproductive Hazards:	No data available

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## SECTION 12 – ECOLOGICAL INFORMATION

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Aquatic toxicity - Fish:	No information reported
Aquatic toxicity – Daphnia:	No information reported
Aquatic toxicity – Algae:	No information reported
Biodegradability:	Not biodegradable
Bioaccumulation:	No information reported
Environmental fate – Air:	Dust may be a nuisance factor
Environmental fate – Soil:	May have a very low leachability in acid soils.
Environmental fate – Water:	No hazardous species are expected to leach into water and, therefore, the product is not expected to be hazardous to aquatic organisms

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## SECTION 13 – DISPOSAL CONSIDERATIONS

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Disposal methods:	All wastes should be evaluated according to the procedures required by the latest edition of the Department of Water Affairs and Forestry's Minimum Requirements for the Handling, Classification, and Disposal of Hazardous Waste and disposed to an appropriate landfill. The sand itself is expected to be non-hazardous but during use it may become contaminated.
Disposal of packaging:	Empty packaging may be disposed to a permitted general waste landfill.
UN Number:	Not regulated
IMDG – Class:	Not regulated
SABS 0228:	Not regulated



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## SECTION 14 – TRANSPORT INFORMATION

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

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## SECTION 15 – REGULATORY INFORMATION

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UN Number:	NA
Substance Identity Number:	NA
IMDG – Class:	NA
IMDG Packaging Group:	Solid non-corrosive
IMDG – Marine Pollutant:	Dangerous only when transported by air or in bulk by sea.
Indication of danger:	Irritant
Risk phrases:	Harmful if swallowed
Safety phrases:	Keep out of reach of children. Avoid contact with skin and eyes.

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## SECTION 16 – OTHER INFORMATION

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