



# Material Safety Data Sheet

Conforms to ISO 11014-1 and the South African Occupational Health and Safety Act (Act 86 of 1993)

## Microblast®

### SUPPLIER DETAILS

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### SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

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

### SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Percent	Hazardous <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 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.
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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 discharge to sewer, but if not available, small amounts can be discharge 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 Known

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

Chronic Toxicity:

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.

Mobility: The sand may release traces of heavy metals

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

Tremcard Number:

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### SECTION 14 – TRANSPORT INFORMATION

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Land/Road/Railway

ADR/RID class: Not applicable

ADR/RID Item number: Not applicable

Inland Waterways

ADNR Class: Not applicable

Sea

IMDG Class: Not applicable

IMDG Page number: Not applicable

Air

IATA-DGR Class: Not applicable

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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.

Tremcard Number:

SABS 0263:

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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Other Special Considerations:     None identified

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