

SAFETY DATA SHEET

Blastrite® Platinum Grit

Section 1. Identification

: Blastrite® Platinum Grit
: None.
: Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Abrasive sandblasting applications.

Supplier's details:	Blastrite (Pty) Ltd PO Box 5515 Cape Town, 8000, South Africa email: sales@blastrite.co.za
Emergency phone:	Website: <u>www.blastrite.com</u> 08600 BLAST Tel: +27 (0)21 417 1700

Section 2. Hazards identification

Classification of the : Does not classify as a toxic hazard in terms of SANS 10234, GHS substance or mixture

Fax: +27 (0)21 425 2970

SANS 10234: 2007 (GHS) label elements

Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not	· Handling and/or processing of this material may gene

Other hazards which do not: Handling and/or processing of this material may generate a dust which can causeresult in classificationmechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture Other means of identification : None.

CAS number/other identifiersCAS number: Not applicable.

Section 3. Composition/information on ingredients

EC number

: Mixture.

Product code : No data available.	[
Major Ingredients as oxides	%	CAS number
silica, crystalline - quartz	Not detectable	14808-60-7
silica, amorphous	40 - 50	7631-86-9
iron(iii)oxide	15 - 35	1309-37-1
magnesium oxide	15 - 25	1309-48-4
calcium oxide	5 - 10	1305-78-8
aluminium oxide	5 - 10	1344-28-1
chromium (III) oxide	1 - 5	1308-38-9

Trace elements (<1%) include potassium oxides, sodium oxides, titanium oxides, manganese oxides and phosphorus oxides. Trace elements at concentrations <0.1% can include copper oxide, nickel oxide, titanium oxide and vanadium oxide.

Electric arc furnace slags mainly consist of compounds containing complex minerals such as dicalciumsilicate (Ca2SiO4), dicalciumferrite (Ca2Fe2O5) and wuestite (Fe1 -x- y,Mgx,Mny)Oz. Some of the constituents may also occur as separate compounds such as CaCo3, CaS, Fe, Fe2O3, CaSO4*2H2O.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	 In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Inhalation	: No effect when product is in its virgin state.
	If used in a process which generates dust, remove victim to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if irritation develops.
Ingestion	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.
	toms/effects, acute and
delayed: Potential act	
Eye contact	: No significant irritation expected other than possible mechanical irritation.
Inhalation	: No effect when product is in its virgin state.
	If used in a process which generates dust, no significant irritation expected other than possible mechanical irritation.
Skin contact	: None identified.
Ingestion	: None identified.
Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include pain, watering and redness

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Section 4. First aid measures		
Inhalation	: No effect when the product is in its virgin state.	
	If used in a process which generates dust, exposure can cause coughing, chest pains and difficulty in breathing.	
Skin contact	: No specific data.	
Ingestion	: No specific data.	
Indication of immediate me	dical attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments Protection of first-aiders	: No specific treatment. : No special measures required.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Non-flammable substance.
Unsuitable extinguishing media	: Not applicable.
Specific hazards arising from the chemical	: Not applicable.
Hazardous thermal decomposition products	: Not applicable.
Special protective actions for fire-fighters	: No special measures are required.
Special protective equipment for fire-fighters	: No special protection is required.

Section 6. Accidental release measures

tive equipment and emergency procedures	
: No special measures are typically indicated.	
: No special measures are typically indicated.	
: No special measures are required.	
ntainment and cleaning up	
: Move containers from spill area. Vacuum or sweep up material and place in a	
designated, labelled waste container. Dispose of via a licensed waste disposal contractor.	
: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.	

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Section 7. Handling and storage		
Precautions for safe handling	: If used in a process which generates dust: Use appropriate personal protective equipment (see Section 8). If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.	
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a dry, well-ventilated area, away from incompatible materials (see section 10) and food and drink.	

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits	
silica, amorphous	Occupational Health and Safety Act, 1993 (South Africa) TWA: OEL:RL 6 mg/m ³ (total inhalable dust) TWA: OEL:RL 3 mg/m ³ (respirable fraction	
calcium oxide	ACGIH TLV (United States, 2/2010). TWA: 2 mg/m ³ 8 hour(s). Occupational Health and Safety Act, 1993 (South Africa) TWA: OEL:RL 2 mg/m ³	
Chromium and its compounds as Cr (III) compounds	ACGIH TLV (United States, 2/2010). TWA: 0.5 mg/m ³ , (measured as Cr) 8 hour(s). Form: Inorganic Occupational Health and Safety Act, 1993 (South Africa) TWA: OEL:RL 0.5 mg/m ³	
iron(iii)oxide	ACGIH (United States). TWA: 5 mg/m ³ ACGIH TLV (United States, 2/2010). TWA: 5 mg/m ³ 8 hour(s). Form: Respirable fraction	
aluminium oxides	Occupational Health and Safety Act, 1993 (South Africa) TWA: OEL:RL 10 mg/m ³ (total inhalable dust) TWA: OEL:RL 5 mg/m ³ (respirable fraction	
magnesium oxide	 ACGIH TLV (United States, 2/2010). TWA: 10 mg/m³ 8 hour(s). Form: Inhalable fraction ACGIH (United States). TWA: 10 mg/m³ Occupational Health and Safety Act, 1993 (South Africa) TWA: OEL:RL 5 mg/m³ (total inhalable dust) TWA: OEL:RL 10 mg/m³ (respirable fraction) 	

procedures

determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

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Section 8. Exposure controls/personal protection

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measure	9S	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts.	
Hand protection	: Wear gloves if a risk assessment indicates this is necessary.	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	: If used in a process which generates dust: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.	

Section 9. Physical and chemical properties

Physical state	: Solid. [Crystalline granules.]
Colour	: Black.
Odour	: Odourless.
Odour threshold	: No data available.
pH (1% slurry)	: 6.5 to 7.5
Melting point	: 1280 °C (2336°F)
Boiling point	: No data available.
Flash point	: Product does not sustain combustion.
Evaporation rate	: No data available.
Flammability (solid, gas)	: Non-flammable.
Lower and upper explosive	: Not applicable.
(flammable) limits	
Vapour pressure	: No data available.
Vapour density	: No data available.
Relative density	: 3.0
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-	: Not applicable.
octanol/water	
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available.
Viscosity	: Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: Incompatible with some strong acids.	
Incompatible materials	: Strong inorganic and organic acids may release heavy metals into the environment.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
silicon dioxide	LD50 Oral	Rat	3160 mg/kg	-
Information on the likely routes of exposure	: Inhalation of dust.	I		
Carcinogenicity	: None known. Not classifie	ed as a carcinogen i	n term of SANS 102	234, the GHS
<u>Potential acute health effects</u> Eye contact Inhalation	 No significant irritation ex No effect when product is 		ossible mechanical	irritation.
	If used in a process which than possible mechanic		o significant irritatio	n expected other
Skin contact Ingestion	: None identified. : None identified.			
Symptoms related to the phy Eye contact	<u>rsical, chemical and toxico</u> : Adverse symptoms may i pain watering redness			
Inhalation	: No effect when the produce If used in a process whice pains and difficulty in bree	h generates dust, ex		coughing, chest
Skin contact Ingestion	: No specific data. : No specific data.			
Delayed and immediate effec	ts and also chronic effect	<u>s from short and lo</u>	ng term exposure	
<u>Short term exposure</u> Potential immediate effects	: No specific data			
Potential delayed effects <u>Long term exposure</u> Potential immediate effects	: No specific data : No specific data			
Potential delayed effects : No specific data				

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Section 11. Toxicological information

Potential chronic health effects		
General	: No known significant effects or critical hazards.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Teratogenicity	: No known significant effects or critical hazards.	
Developmental effects	: No known significant effects or critical hazards.	
Fertility effects	: No known significant effects or critical hazards.	

Numerical measures of toxicity

<u> </u>	Acute toxicity estimates		
	Route	ATE value	
	Oral	3235.2 mg/kg	

Section 12. Ecological information

Toxicity

Not expected to be toxic to aquatic species

Persistence and degradability

No specific data.

Bioaccumulative potential

No specific data.

Mobility in soilSoil/water partition: No specific data.coefficient (KOC)

Mobility

: Very low mobility of hazardous heavy metal content in soil and water is expected.

Other adverse effects

No know significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	Not classified as hazardous in terms of SANS 10234, GHS and classifies as a Type 3 waste, i.e. a low environmental risk, for disposal to landfill in terms of the DoE's Norms and Standards for the Assessment of Waste for Landfill Disposal (2013).		
	Dispose to a landfill licenced or permitted in terms of the DoE's National Norms and Standards for Disposal of Waste to Landfill (2013). Waste can be disposed of in a Class C Landfill or, if not available, a Class B (GLB+) landfill must be used.		
	If the grit has been used, the resulting waste must be classified in terms of the DoE's Norms and Standards for the Assessment of Waste for Landfill Disposal (2013).		

Section 14. Transport information

	SANS 10228:2012 IMDG IAT		ΙΑΤΑ
	SANS 10228:2012	IMDG	
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

<u>History</u>	
Date of printing	: 15/03/2018
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revision	
Date of previous issue	: 29/09/2017
Version	: 5
Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From
	Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	UN = United Nations
References	: Toxnet
	: Ecotox

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.