

Products & Services:

Sandblast Grit • Crushed Slagstone • Mineral Separation

Tel 013 699 0314 • Fax 013 699 9425 • E-mail: sales@afgrit.co.za • www.afgrit.co.za

34 Van Eck Street Ferrobank Witbank 1035 • Private Bag X7260 Suite 209 Witbank 1035

Reg No: 2004/016729/07 VAT No: 4030237210



## Ferrochrome Slag Aggregate

### MATERIAL SAFETY DATA SHEET

All information in this MSDS is given in good faith and is accurate according to test results by accredited authorities.  
This MSDS is subject to revision when additional information comes to light.

#### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Supplier:</b>	Afrigit	<b>Telephone:</b>	013 699 0314
<b>Postal:</b>	Private Bag X7260 Suite 209 Witbank	<b>Fax:</b>	086 575 0231
		<b>Emergency Telephone:</b>	082 894 9097
		<b>e-mail:</b>	<a href="mailto:sales@afgrit.co.za">sales@afgrit.co.za</a>
<b>Trade Name:</b>	Ferrochrome Slag Aggregate		
<b>Chemical Family:</b>	Ferrochrome		
<b>Product Name:</b>	G Materials; 19mm; 13.2mm; 9.5mm; 6.7mm; 4.75mm; Crusher sand; Crusher Dust Aggregate		

#### 2. COMPOSITION AND INGREDIENT INFORMATION

<b>Hazardous components:</b>	Crushed and Washed Ferrochrome Slag Aggregates.
<b>Common chemical name or generic name:</b>	Ferrochromium
<b>Hazchem Code:</b>	Not applicable
<b>UN / URG Number:</b>	Not applicable

#### CHEMICAL COMPOSITION

Calcium Oxide	2%	Titanium Dioxide	1%
Magnesium Oxide	20%	Iron Oxide	8%
Aluminium Oxide	26%	Chrome 3 oxide	12%
Silicon Dioxide (Fused)	32%		

#### 3. HAZARDS IDENTIFICATION

Specific Hazards:	None
Flammability:	None
Chemical Hazard:	None
Biological hazard:	None
Reproductive Hazard:	None

Health effects:	
Eyes:	Same as any other foreign object or dust.
Skin:	Same as any other foreign object or dust.
Ingestion:	No known hazards.
Inhalation:	Same as for nuisance dust.
Carcinogenicity:	Not applicable
Mutagenicity:	No known hazards.

#### 4. FIRST AID MEASURES

<b>Product in eye:</b>	Wash with clean water until dust or particle is removed. If object could not be removed by this method seek medical attention.
<b>Product on skin:</b>	Dust off or wash with water.
<b>Product ingested:</b>	No need to administer any remedy although water will help rinse stomach.
<b>Product inhaled:</b>	If person is overcome by dust cloud, introduction of clean fresh air is advised.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media:	The substance is not flammable and inert to all fire fighting media.
Special Hazards:	Not advisable for areas with a higher temperature than 1500 °c.
Protective clothing:	Only necessary in the blasting application.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	None
Environmental precautions:	Leaching may occur when in contact with organic compositions over a long period. Mix with a lime solution.
Suggested method of cleanup:	Remove from organic material as soon as possible. Gather spilled material with brooms, spades, scoops etc.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	No precautions needed, can be handled safely when loose or bagged.
<b>Storage Precautions:</b>	There is no unsafe storage for chrome based slag when suitable storage is being provided. However, keep in mind that contact with organic material and acid rain may cause leaching over a period of time.

#### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

<b>Occupational Exposure Limits (OEL):</b>	Total in-halable dust 0.5mg/m <sup>3</sup>
<b>Engineering control measures:</b>	None

#### Personal protection during working application:

a. <b>Respiratory:</b>	Suitable dust masks of same nature as for nuisance dust.
b. <b>Hand:</b>	Leather or rubber gloves.
c. <b>Eye:</b>	Safety glasses or shield if nuisance dust is present.

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- d. **Skin:** None.  
e. **Feet:** Safety shoes or boots.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Gravel-like Dark Grey in color
pH:	7.9
Boiling Point:	N/A
Melting Point:	1600 - 1700 °C
Flash Point:	N/A
Flammability:	N/A
Spontaneous combustion:	N/A
Explosive properties:	N/A
Oxidizing properties:	N/A
Vapor pressure:	N/A
Loose Bulk Density:	1700Kg/m <sup>3</sup>
Solubility -water:	N/A
Solubility -coefficient:	N/A
Neurotoxicity:	None
Conductivity:	<24,1 uS/cm

#### 10. STABILITY AND REACTIVITY

**Conditions to avoid:**

- Storage in contact with organic material over a long period of time.
- Highly acidic conditions.
- Dumping where leaching may occur.

**Incompatible materials:**

- Inorganic material.
- Acids.

Hazardous decomposition products: As listed above.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Dust may cause irritation to nose, throat and lungs.
Skin and eye contact:	Redness and soreness of the skin and tearing of eye tissue.
Chronic toxicity:	Ulceration of the Central Nasal Septum of the nose, chronic dermatitis, over a prolonged period.
Carcinogenicity:	None
Mutagenicity:	N/A.
Reproductive hazards:	None known.

#### 12. ECOLOGICAL INFORMATION

Aquatic toxicity:	(fish:)	None.
Aquatic toxicity:	(daphnia:)	None known.
Aquatic toxicity:	(algae:)	None known.
Biodegradability:		Negligible.
Bio-accumulation:		None.
Mobility:		None

#### 13. REGULATORY INFORMATION

EEC Hazard Classification	9
Risk Phases	
Safety Phases	
National Legislation	

#### 14. OTHER INFORMATION

**Ferrochrome Slag/Aggregate is a delisted material, but may not be used in a downstream application prior to the approval of a Section 20(1) permit in terms of the Environment Conservation Act, 1989 (Act 73 of 1989) for the storage of Afrigrit Ferrochrome Slag/Aggregate and subject to the conditions therein.**

This MSDS conforms with General Administrative Regulations of 6 September 1996 (ISO 11014 / ANSI Z400.1.1996) and South African Committee for Certified Reference Materials.

Date of origin 10 Feb. 1997	Originator Pat Pick	Revised by M. Douglas	Date of revision 28 May. 2019	Revision No. 12	Name of Doc M.S.D.S
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