



**RAND YORK**  
MINERALS

Official Certificate of Analysis

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**Benmore 2010 South  
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## **MATERIAL SAFETY DATA SHEET**

**Material / Product: Foundry / Chemical Grade Chromite sand**

**Date: 28 July 2020**

### **SECTION 1 – IDENTIFICATION**

**Manufacturer / Distributor:** Rand York Minerals (Pty) Ltd

**Address:** P O Box 650755  
Benmore  
2010  
South Africa

**During normal business hours**

**Telephone:** +27 (11) 463 9000

**Fax:** +27 (11) 463 7002

**Outside normal business hours**

**Telephone:** +27 82 490 8155

\*All bagged cargo is guaranteed at 0.05% moisture

## **SECTION 2 – HAZARDOUS COMPONENTS**

Hazardous Component	CAS No.	%	OSHA PEL (mg/M <sup>3</sup> )	ACGIH TLV (mg/M <sup>3</sup> )	OTHER LIMITS
Chromium as Cr <sub>2</sub> O <sub>3</sub>	308-38-9	47%	0.5	0.5	N/K
Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>	309-37-1	29%	10	5	N/K
Aluminium as Al <sub>2</sub> O <sub>3</sub>	7429-90-5	13% - 16.5%	10	10	N/K
Silica as SiO <sub>2</sub>	1790-53-2	<1%	10	10	N/K
Magnesium Oxide as MgO	782-64-1	10% - 12%	10	10	N/K

Chrome Spinel Sand (common name Chromite Sand) is a complex compound of various elements.

The main elements are listed above.

The above elements, except Silica are part of the Spinel structure and as such cannot be separated out.

Silica is a tramp element and can be found as Silica, Magnesium Silicate (Serpentine) and Aluminium Silicates.

## **SECTION 3 – PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>Boiling point:</b>	N/A	<b>Specific Gravity:</b>	2.65g/cc
<b>Vapour pressure:</b>	N/A	<b>Evaporation rate:</b>	N/A
<b>Vapour density:</b>	N/A	<b>Solubility in water:</b>	N/A

### **Appearance and odour:**

Chromite is a black, sandy, odourless material which is free flowing when dry. It is insoluble in water and any common organic solvents.

N/A = Not Applicable

N/K = Not Known

## SECTION 4 – FIRE AND EXPLOSION DATA

**Flash Point:** None  
**Flammable limits – LeL:** N/A      **Ucl:** N/A  
**Extinguishing media:** N/A  
**Special fire fighting procedures:** N/A  
**Unusual fire & explosion hazards:** None

## SECTION 5 – REACTIVITY DATA

**Stability:** Stable  
**Incompatibility:** N/A  
**Hazardous polymerisation:** Will not occur  
**Hazardous decomposition products:** None

## SECTION 6 – HEALTH HAZARD DATA

**Route(s) of entry:** INHALATION – Yes    SKIN – Yes EYES – Yes INGESTION – Yes  
**Health Hazards: Acute –** N/A  
**Health Hazards: Chronic –** Inhalation of dusts can cause silicosis of lungs.  
**Toxicity data:** N/A  
**Carcinogenicity:** N/A  
**Signs and symptoms of exposure:** Respiratory irritation  
**Medical conditions aggravated by exposure:** Pre-existing respiratory ailments.

## EMERGENCY AND FIRST AID PROCEDURES

**Inhalation: Symptoms –** Difficulties in breathing. **Remedy –** Remove person to fresh air, if symptoms persist seek medical advice.  
**Skin:** N/A  
**Eyes: Symptoms -** Foreign body enters eye during cutting or handling. **Remedy –** Wash thoroughly with clean cold water.  
**Ingestion:** N/A

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING IN USE

**Spills / Leaks:** N/A  
**Waste disposal:** Dispose of in accordance with local, state and federal regulations.  
**Handling, use and storage:** Store in cool dry place.

N/A = Not Applicable

N/K = Not Known

## **SECTION 8 – CONTROL MEASURES**

### **Respiratory protection:**

Use NIOSH approved mask for dust.

### **Ventilation:**

It is recommended that areas where chromite dust is regularly encountered Local Exhaust Ventilation (LEV) be employed and, where this is not possible, Personal Protection Equipment (PPE) be used.

**Gloves:** Cloth, gauntlet type.

**Eye protection:** Goggles

**Other:**

Please ensure that all persons coming into contact with this product are aware of the information contained in this MSDS sheet. The information given corresponds to the current state of our knowledge and experience, unless otherwise stated. In the case of combinations and mixtures one must make sure that no new dangers can arise. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and protections of human welfare and the environment. If you need any further information from us please contact the company.

**Revision Original**

**Date 28 July 2020**



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