

Innovative suppliers of spray painting & abrasive blasting equipment

Cnr Top & Main Road, Anderbolt, Boksburg PO Box 6275, Boksburg, 1508

Registration Number: 2015/298914/07

www.stormmachinery.co.za

# **Garnet 80: Material Safety Data Sheet**

(GarnetSA)

### 1. COMPANY DETAILS

Company Name: Storm Machinery (Pty) Ltd

Address: Cnr Top & Main Road, Anderbolt, Boksburg

Tel: +27 (0)11 894 2005 Fax: +27 (0)11 894 2006

Email: sales@stormmachinery.co.za Website www.stormmachinery.co.za

## 2. HAZARDS IDENTIFICATION

Hazchem Code: No Hazchem code allocated.
Poisons Schedule No: No Poisons Schedule number

allocated. Use: Blast cleaning abrasive

Water Jet cutting abrasive Water filtration media

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

The material is predominantly almandine garnet and other trace minerals

Chemical Name	CAS Number	Proportion (weight %)
Almandine Garnet Fe3Al2(SiO4)3	1302-62-1	Greater than 95%
Ilmenite FeTiO3	103170-28-1	Less than 5%
Calcium Carbonate CaCO3	471-34-1	Less than 2.0%
Zircon ZrSiO4	149040-68-2	Less than 0.2%
Quartz (Crystalline Silica) SiO2	14808-60-7	Less than 1%

Other Properties Typical

Bulk Density: 2.4 tonnes per cubic meter. Hardness: 7.5 – 8.0 on the Moh scale.

Conductivity less than 25mS/m

Page 1 of 5



Innovative suppliers of spray painting & abrasive blasting equipment

Cnr Top & Main Road, Anderbolt, Boksburg PO Box 6275, Boksburg, 1508

Registration Number: 2015/298914/07

www.stormmachinery.co.za

## 4. HEALTH EFFECTS AND FIRST AID MEASURES

**Health Effects** 

<u> Acute:</u>

Swallowed: Non-toxic. There are no known hazards resulting from accidental ingestion of

Garnet as may occur during normal handling. Swallowing a large amount may

result in irritation to the digestive system due to abrasiveness.

Exposure to nuisance dust created by use as a blast cleaning media may

cause eye irritation.

Skin: Not irritating to the skin nor health effect known.

Inhaled: Exposure to nuisance dust created during normal handling may cause throat

and lung irritation, coughing or shortness of breath.

Chronic: No known health effects in workers arising from long term exposure to this

substance in it virgin state. Crystalline silica is known cause of lung fibrosis (silicosis). It has been classified as a human carcinogen. Garnet sand do contains a small amount of free quarts (less than 1%) and precautions should be taken

to avoid inhaling the dust during sandblasting operations.

First Aid Measures

Swallowed First aid is unlikely to be required, but if necessary wash mouth with water

ensuring the mouthwash is not swallowed. Seek medical attention if

discomfort occurs.

Eye: Wash eyes with water to flush out particles. Continue until all particles are

removed.

Seek medical attention if soreness or irritation

persist Skin: Should symptoms develop seek medical attention

<u>Inhaled</u>: Move to fresh air and blow nose to remove particles from nasal passages.

If any adverse reaction develops seek medical attention

#### 5. FIRE FIGHTING MEASURES

Flashpoint: Non-explosive

<u>Flammability:</u> Non-flammable

General Hazard: Product is not flammable and does not support combustion

Extinguishing Media: Can be used as a substitute for sand

Page 2 of 5



Innovative suppliers of spray painting & abrasive blasting equipment

Cnr Top & Main Road, Anderbolt, Boksburg PO Box 6275, Boksburg, 1508

Registration Number: 2015/298914/07

www.stormmachinery.co.za

#### **6. ACCIDENTAL RELEASE MEASURES**

Spill and Disposal Wear safety equipment as for normal handling. Avoid generating

dust. Vacuum up if possible, otherwise sweep up and re-cycle. If the spiled product is not suitable for re-use, damp down, collect and where possible return to manufacturer for reprocessing. Otherwise dispose of to an approved landfill site and cover with clean fill in accordance with

local regulations.

# 7. SAFE HANDLING INFORMATION

Storage and Transport: No special precautions necessary. Storage area should be ventilated

and dust generation minimised when handling loose bulk product. Use

good housekeeping practises to keep dust to a minimum

# 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standards: Nuisance dust levels should be kept below TWA 10 mg/m<sup>3</sup> (ACHIH). If

this level is exceeded respiratory protection is required.

Respirable quartz dust:TWA 0.1 mg/m³ (ACHIH)

Engineering Controls: Maintain ventilation and/or dust collection to reduce dust exposure to

near- by workers. Maintain a clean and safe work environment and

monitor effectiveness.

Personal Protection: Blast cleaning operations should use an AS 1715 approved air fed

abrasive blasting hood, such as Nova 2000, as well as leather (or equivalent) gloves and apron when in use. Hearing protection should also be worn when blast cleaning. Protection safety glasses with side shield or goggles complying with approved local standards should be

worn

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u> Pink to red coloured sand with no odour.

Melting Point: Approximately 1250°C

Vapour Pressure: Not applicable.

Specific Gravity: 4.1

Flashpoint: Material is a non-flammable solid.

Flammability Limits: Not applicable.
Solubility in Water: Not soluble in water.

Page 3 of 5



Innovative suppliers of spray painting & abrasive blasting equipment

Cnr Top & Main Road, Anderbolt, Boksburg PO Box 6275, Boksburg, 1508

Registration Number: 2015/298914/07

www.stormmachinery.co.za

### **Other Properties**

Bulk Density: 2.4 tonnes per cubic meter. Hardness: 7.5 – 8.0 on the Moh scale.

#### **10. STABILITY AND REACTIVITY**

Reactivity: Inert. Chemical Stability: Stable

<u>Incompatibilities</u>: None in normal or expected use <u>Decomposition</u>: Decomposition will not occur

Hazardous Reaction: None Known

# 11. TOXICOLOGICAL INFORMATION

Non Toxic. Crystalline silica is known cause of lung fibrosis (silicosis). It has been classified as a human carcinogen. Garnet sand do contains a small amount of free quarts (less than 1%) and precautions should be taken to avoid inhaling the dust during sandblasting operations

## 12. ECOLOGICAL INFORMATION

The material is unlikely to cause any environmental damage. It is insoluble in water.

### 13. DISPOSAL CONSIDERATION

Disposal must be in accordance with local regulations. Used material may be contaminated with foreign material, classification of the foreign material might require further approvals from local regulators.

#### 14. TRANSPORT INFORMATION

Transport is not regulated and may be transported as a non-hazardous material. Trucks transporting bulk material must be covered to prevent dust generation. Likewise bulk bags should be closed prior to transportation.

## **15. REGULATORY INFORMATION**

No known regulations for this product



Innovative suppliers of spray painting & abrasive blasting equipment

Cnr Top & Main Road, Anderbolt, Boksburg PO Box 6275, Boksburg, 1508

Registration Number: 2015/298914/07 www.stormmachinery.co.za

# 16. OTHER INFORMATION

MSDS has been prepaid by Namblast cc. The information in this MSDS was obtained from sources, which we believe are reliable. However the information is provided without any representation or warranty, expressed or implied, regarding accuracy. These conditions or methods of handling, storage use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Customers/users of the product must comply with all applicable health and safety laws, regulations and orders, including the OSHA hazardous Communication Standard.