

NamaGrit™

MATERIAL SAFETY DATA SHEET

No 22 : NAMAGRIT

Date Issued : 24 March 2017

1. Company Details

Company Name: Ecoworks Industrial Products Pty Ltd
Reg Number : 2012/037538/07
Address : PO Box 59
Noordhoek
7979 South Africa
Tel/Fax : 00 27 (0)86 111 5136

Product Identification

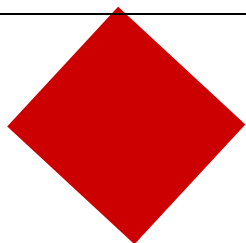
This material is a shiny, black, granular aggregate for use as a blasting media

Trade Name : NamaGrit
Chemical Family : Mineral Slag
Chemical Formula : Amorphous Glass in Granular form
Chemical Name : Iron Aluminium Silicate
Synonyms : Fayalite
Chemical abstract no. : N/A
NIOSH no. : N/A
Hazchem Code : N/A
UN no. : N/A

2. Material Composition

<u>Chemical Name</u>	<u>Common Name</u>	<u>Typical %</u>	<u>CAS #</u>	<u>Hazardous</u>
SiO ₂	Silicon Dioxide	25 – 44	7631-86-9	
Fe ₂ O ₃	Iron Oxide	22 – 49	1309-37-1	
Al ₂ O ₃	Aluminium Oxide	3.5 – 7	1344-28-1	
CaO	Calcium Oxide	5.2- 25	1305-78-8	
MgO	Magnesium Oxide	2.8 – 5.2	1309-48-4	
Na ₂ O	Sodium Oxide	0.08 – 0.12	12401-86-4	
TiO ₂	Titanium Oxide	0.1- 0.32	13463-67-7	
CuO	Copper Oxide	0.08 – 0.29	7440-50-8	
K ₂ O	Potassium Oxide	<0.1	Nil	
Si	Silica (Free)	< 0.5	14808-60-7	

The major elements are reported as oxide%. The slag contains traces of heavy metals which are only available to the environment through strong acidic absorption



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3. Hazards Identification

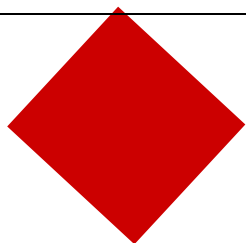
Main Hazard	:	Non Hazardous but eyes, throat and skin can become irritated when exposed to high concentrates
Flammability	:	Non Flammable
Chemical Hazard	:	Inert
Biological Hazard	:	Not Known
Reproductive Hazard	:	Not Known
Eye Contact	:	Contact with eyes may cause irritation
Skin Contact	:	Contact with skin may cause irritation
Health Effects - ingestion	:	May cause irritation to mucous membranes and release of heavy metals in stomach acid
Health Effects – inhalation	:	May cause irritation of respiratory tract – nuisance dust
Carcinogenicity	:	Non Carcinogenic
Mutagenicity	:	Non Mutagenic
Neurotoxicity	:	Inert

4. First Aid Measures:

Product in eyes	:	In case of contact immediately flush eyes with plenty of water. If irritation persists, seek medical attention
Product on skin	:	The material is not hazardous by skin contact, but removal of particles and cleansing the skin after use is advisable. Seek medical attention if irritation persists
Product Ingested	:	Ingestion is an unlikely route of exposure. Leave decision to induce vomiting to qualified medical personnel
Product Inhaled	:	If inhaled immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

5. Fire Fighting Measure:

Extinguishing Media	:	Non Flammable, suitable extinguishing media for the surrounding fire should be used.
Special Hazards	:	Nil
Protective Clothing	:	In the event of any fire, wear full protective clothing and an approved self-contained breathing apparatus



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6. Accidental Release Measures

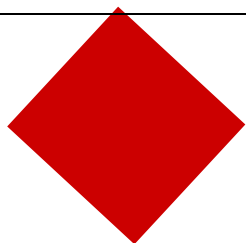
- Personal Precautions : Avoid creating dust, contact with skin and eyes. Wear recommended personal protective equipment and use disposal dust protection mask, see also section 7 and 8.
- Environmental Precautions : Ensure material is properly disposed of according to local regulation
- Methods for cleaning up : Collect spilled material mechanically and place in a suitable, compatible, properly labelled container. Avoid creating excessive dust. Ensure adequate ventilation and landfill disposal of material in accordance with local regulation

7. Handling and Storage

- Suitable Material : Paper or Poly bags and/or bulk bags
- Handling/Storage precautions : Do not expose to UV and heat, water and moisture, and incompatible chemicals

8. Exposure Controls/Personal Protection

- Occupational exposure limits : NIOSH limits, personal exposure should be kept below 10mg/m³ per 8 hour time weight average total inhalable dust and 5 mg/m³ per 8 hour time weighted average respirable dust. A suitable NIOSH/MSHA approved full face piece filter/respirator should be worn
- Engineering control measures : Exhaust ventilation should be sufficient to maintain dust levels below applicable exposure limit
- Personal protection – respiratory: When engineering control limits are not sufficient to lower dust levels below the applicable exposure limit, use a NIOSH-approved respirator. NIOSH – approved respirators should be used during all abrasive blasting operations. Ancillary workers should use NIOSH approved dust respirators.
- Personal protection – hand : Impervious gloves while blasting and handling of product
- Personal protection – eye : Safety goggles or safety glasses with side shields or full face shield should be worn as a minimum protection from impact. Dust goggles should be



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Personal protection – skin : worn when excessively dusty conditions are expected
The use of hard toe shoes, gloves and impervious clothing must be worn to avoid skin contact

9. Physical and Chemical Properties

Appearance : Black angular grains
Odour : Nil
Ph : >7
Boiling point : Not Known
Melting point : 1340 deg C
Flash point : N/A
Flammability : Nil
Autoflammability : Nil
Explosive properties : Nil
Oxidising properties : Nil
Vapour pressure : Nil
Density : 3.2
Solubility – water : Nil
Solubility – solvent : Nil
Solubility – coefficient : Nil
Neurotoxicity : Nil

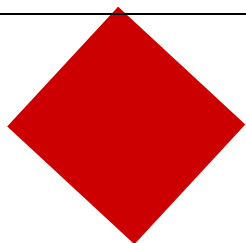
10. Stability and Reactivity

Stability : Stable
Conditions to avoid : Incompatible Chemicals
Incompatible materials : Strong mineral acids may release heavy metals present in the slag
Hazardous decomposition products : None expected

11. Toxicological Information

Acute toxicity : Non Toxic
Skin and eye contact : Non Toxic
Chronic toxicity : Nil
Carcinogenicity : Nil
Mutagenicity : Nil
Reproductive Hazards : Nil

12. Ecological Information



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Aquatic toxicity – fish	:	Nil
Aquatic toxicity – algae	:	Nil
Biodegradability	:	Nil
Bio-accumulation	:	Nil
Mobility	:	Nil

13. Disposal Consideration

Disposal Methods	:	The product is classified as non-hazardous. However once used as a shot blast media the material must be disposed of in appropriate manner as set by local authorities. The waste producer must determine if waste blasting material contains dangerous substances arising from the blasting process and the
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Disposal Consideration (cont'd)

Disposal of packaging	:	levels of those dangerous substances and dispose of the material under the appropriate category. Empty packaging may be disposed to a permitted general waste landfill or recycle polypropylenes
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14. Transportation Information

Land Transport

ADR	:	Not regulated
GGVS	:	Not regulated
RID	:	Not regulated
GGVE	:	Not regulated

Sea Transport

IMDG/GGVSEA-code	:	Not regulated
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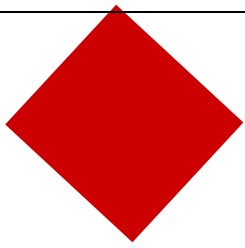
Air Transport

ICAO/IATA-DGR	:	Not regulated
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Other information	:	May be sent by mail
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15. Regulatory Information

UN no.	:	Not Applicable
Substance identity no.	:	Not Applicable
IMDG – class	:	Not Applicable
IMDG – packaging group	:	Solid non-corrosive
EEC Hazard classification	:	Not Applicable
Risk phrases	:	Do not ingest
Safety phrases	:	Avoid contact with skin and eyes



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16. Other Information

Product complies with ISO 11126-3 for non-metallic blast-cleaning abrasives

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