

MATERIAL SAFETY DATA SHEET

1. COMPANY DETAILS

Ecoworks Industrial Products (Pty) Ltd
 P O Box 59
 Noordhoek
 7979 Cape Town
 Telephone: +27 (0)827796071
 Fax: +27 (0)866685136
 Email: sales@ecoblast.co.za

Product Identification

Shiny, grey/black, granular aggregate
 Trade Name: EcoBlast EB70 Silicate
 Chemical Family: Amorphous
 Chemical Formula: Iron Aluminium Silicate
 Chemical Name: Fayalite/Ferrochrome slag
 Synonyms:
 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 (Combined)	25 - 33	7631-86-9	
Fe ₂ O ₃	Iron Oxide	5-10	1309-37-1	
Al ₂ O ₃	Aluminium Oxide	26 - 31	1344-28-1	
Cr ₂ O ₃	Chromium Oxide	11-15	1308-38-9	
MgO	Magnesium Oxide	16-20	1309-48-4	
Na ₂ O	Sodium Oxide	<1	12401-86-4	
TiO ₂	Titanium Dioxide	<1	13463-67-7	
CaO	Calcium Oxide	1-3	1305-78-8	

The major elements are reported as oxide%. The material contains traces of metals which are only available to the environment through prolonged exposure to strong acids

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 MEASURES

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.

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 regulations.
Methods for cleaning up:	Mechanically collect spilled material into a suitable and labelled container. Avoid creating excessive dust. Ensure adequate ventilation and disposal of material in accordance with local regulations.

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, moisture, and incompatible chemicals

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits:	NIOSH limits, personal exposure should be kept below 10mg/m ³ per 8 hour time weight average total inhalable dust and 5 mg/m ³ 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
Respiratory protection:	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 worn when excessively dusty conditions are expected
Personal protection – skin:	The use of hard toe shoes, gloves and impervious clothing should be worn to avoid skin contact

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray/Black angular grains
Odour:	Nil
Ph:	>7
Boiling point:	Not Known
Melting point:	1420 deg C
Flash point:	N/A
Flammability:	Nil
Autoflammability:	Nil
Explosive properties:	Nil
Oxidising properties:	Nil
Vapour pressure:	Nil
Specific Density:	3.6
Solubility – water:	Nil
Solubility – solvent:	Nil
Solubility – coefficient:	Nil
Neurotoxicity:	Nil
Radioactivity	Nil

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to avoid:	Incompatible Chemicals
Incompatible materials:	Strong mineral acids may release heavy metals
Hazardous decomposition:	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

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 an 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 levels of those dangerous substances and dispose of the material under the appropriate category.
Disposal of packaging:	Empty packaging may be disposed to a permitted general waste landfill for recycling polyplastics

14. TRANSPORT INFORMATION

Land Transport	
ADR:	Not regulated
GGVS:	Not regulated
RID:	Not regulated
GGVE:	Not regulated
Sea Transport	
IMDG/GGVSEA-code:	Not regulated
Air Transport	
ICAO/IATA-DGR:	Not regulated
Other information:	May be sent by mail

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

16. OTHER INFORMATION

DISCLAIMER: 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.