

Material Safety Data Sheet

Company Details

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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:	Not Carcinogenic
Mutagenicity:	Not Mutagenic
Neurotoxicity:	Inert

Product Identification (Shiny, grey/black, granular aggregate)

Trade Name	EcoBlast
Chemical Family	Silicate
Chemical Formula	Amorphous
Chemical Name	Iron Aluminium Silicate
Synonyms	Fayalite
Chemical abstract no	N/A
NIOSH no	N/A
Hazchem Code	N/A
UN no	N/A

Material Composition

Determination	Element	Product Datasheet	Material Safety Datasheet
Silicon Dioxide	SiO ₂	33-35%	33-35%
Aluminium Oxide	Al ₂ O ₃	25-27%	25-27%
Magnesium Oxide	MgO	16-19%	16-19%
Iron Oxide	Fe ₂ O ₃	5-6%	5-6%
Calcium Oxide	CaO	1-3%	1-3%
Sulphur Trioxide	SO ₃	<0.2%	<0.2%
Potassium Oxide	K ₂ O	<0.3%	<0.3%
Titanium Oxide	TiO ₂	<0.8%	<0.8%
Chromium Oxide	Cr ₂ O ₃	11.13%	11.13%
% in total weight-->		99.00%	99.00%



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.

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.

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

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.

Exposure Controls and 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 5mg/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.

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 respirator 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.

Exposure Controls and Personal Protection

Personal protection - skin: The use of hard to shoes, gloves and impervious clothing should be worn to avoid skin contact.

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
Colubility - coefficient:	Nil
Neurotoxicity:	Nil

Stability and Reactivity

Stability:	Stable.
Conditions to avoid:	Incompatible Chemicals.
Incompatible materials:	Strong mineral acids may release heavy metals.
Hazardous decomposition:	None expected.

Toxicological Information

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

Ecological Information

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

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 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.

Transport Information

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



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

Other Information

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