

Microblast®**Section 1. Identification**

GHS product identifier	Microblast®
Other means of identification	None.
Product type	Solid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Water jet cutting and abrasive sandblasting applications

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Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

SANS 10234: 2007 (GHS) label elements

Signal word : No signal words.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Other hazards which do not result in classification : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture.
Other means of identification : None.

CAS number/other identifiers

CAS number : Not applicable.
EC number : Mixture.
Product code : Not available.

Ingredient name	%	CAS number
Almandine Garnet $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$	85 - 90	1302-62-1
Ilmenite (FeTiO_3)	10 - 15	12168-52-4

Silica (Alpha) quartz concentration <0.5%. Alpha quartz is not found to be present in the sample at the level above either of the SSPC AB1 limits. The product is thus classified as Class A.

Chemical composition measured in oxide form:	Calcium:	<2%
	Magnesium:	<5%
	Manganese:	<3%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Inhalation	: No effect when product is in its virgin state. If used in a process which generates dust, remove victim to fresh air and keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if irritation develops
Ingestion	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact:	: No significant irritation expected other than possible mechanical irritation.
Inhalation	: No effect when product is in its virgin state. If used in a process which generates dust, no significant irritation expected other than possible mechanical irritation.
Skin contact	: None identified.
Ingestion	: None identified.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: Pain, Watering, Redness.
Inhalation	: No effect when the product is in its virgin state. If used in a process which generates dust, exposure can cause coughing, chest. pains and difficulty in breathing.
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No special measures required.

See toxicological information (Section 11)

Section 5.	Fire-fighting measures
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Extinguishing media

- Suitable extinguishing media** : Non-flammable substance.
- Unsuitable extinguishing media** : Not applicable.
- Specific hazards arising from the chemical** : Not applicable.
- Hazardous thermal decomposition products** : Not applicable.
- Special protective actions for fire-fighters** : No special measures are required.
- Special protective equipment for fire-fighters** : No special protection is required.

Section 6.	Accidental release measures
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Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No special measures are typically indicated.
- For emergency responders** : No special measures are typically indicated.
- Environmental precautions** : No special measures are required.

Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. [Note: see section 1 for emergency contact information and section 13 for waste disposal.]
- Large spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. [Note: see section 1 for emergency contact information and section 13 for waste disposal.]

Section 7.	Handling and storage
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- Precautions for safe handling** : *If used in a process which generates dust:*
Put on appropriate personal protective equipment (see Section 8). If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a dry, well-ventilated area, away from incompatible materials (see section 10) and food and drink.

Section 8.	Exposure controls/personal protection
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Control parameters

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| Occupational exposure limits | : None. |
| Recommended monitoring procedures | : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. |
| Appropriate engineering controls | : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

Individual protection measures

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| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts. |
| Hand protection | : Wear gloves if a risk assessment indicates this is necessary. |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : <i>If used in a process which generates dust:</i>
Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |

Section 9.	Physical and chemical properties
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| Physical state | : Solid. [Crystalline granules.] |
| Color | : Pink [Dark] |
| Odor | : Odourless. |
| Odor threshold | : Not available. |
| pH | : Not applicable. |
| Melting point | : 1260°C (2300°F) |
| Boiling point | : Not available. |
| Flash point | : Product does not sustain combustion. |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Non-flammable. |
| Lower and upper explosive (flammable) limits | : Not applicable. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |

Relative density	: 4.2
Solubility Insoluble in the following materials:	: Insoluble in the following materials: cold water and hot water
Partition coefficient: n-octanol or water	: Not applicable.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not applicable.

Section 10.	Stability and reactivity
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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Incompatible with some strong acids.
Incompatible materials	: Strong inorganic and organic acids may release heavy metals, that are present in the grit, into the environment.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11.	Toxicological information
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Information on the likely routes of exposure : Inhalation of dust.

Potential acute health effects

Eye contact	: No significant irritation expected other than possible mechanical irritation.
Inhalation	: No effect when product is in its virgin state. If used in a process which generates dust, no significant irritation expected other than possible mechanical irritation.
Skin contact	: None identified.
Ingestion	: None identified.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No effect when the product is in its virgin state. If used in a process which generates dust, exposure can cause coughing, chest pains and difficulty in breathing.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : No specific data.

Long term exposure

Potential immediate effects : No specific data.

Potential delayed effects : No specific data.

Potential chronic health effects

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates : No specific data.

Section 12.	Ecological information
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Toxicity : No specific data.
Persistence and degradability : No specific data.
Bio accumulative potential : No specific data.

Mobility in soil

Soil/water partition coefficient (KOC) : No specific data.
Mobility : Low mobility of hazardous heavy metal content in soil and water is expected.

Other adverse effects : No known significant effects or critical hazards.

Section 13.	Disposal considerations
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Disposal methods : Non-hazardous product. The product in its virgin state can be disposed to a general waste landfill permitted in terms of the Department of Water Affairs and Forestry's minimum requirements for waste disposal to landfill, and the minimum requirements for the handling, classification and disposal of hazardous waste. However, if the product is used in a process which generates additional waste it can become contaminated by a secondary product (i.e. sandblasting on steel) will contaminate the product and therefore change the product classification.

Section 14.	Transport information
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	SANS 10228:2012	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Section 15.	Regulatory information
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Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16.	Other information
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History

Date of printing : 20/09/2019
Date of issue/Date of revision : 08/11/2017
Date of previous issue : 22/09/2014.
Version : 2
Key to abbreviations : *ATE* = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

References : Toxnet.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.