

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) 2015/830)

Granatsand

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Granatsand
Synonyms	Type Garnit, Garnet
Product code	None.

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

Use of the Substance/Mixture	Filtration, blast cutting and cleaning blasting
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1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Carlo Bernasconi AG Juchstrasse 11 CH-8048 Zürich Fon +41 84 838 80 00 Fax +41 84 838 80 01 info@carloag.ch
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1.4. Emergency telephone number	145 (Tox Info Suisse)
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Issuing date	01.03.2022
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Version	GHS 2 (Previous versions: GHS 1)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	The substance or mixture is not classified.
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Additional information	For the full text of the phrases mentioned in this Section, see Section 16.
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2.2. Label elements

Signal Word	-
Hazard Statements	None.
Precautionary statements	P260d: Do not breathe dust.
Supplemental information	None.
Product identifier	None.

2.3. Other hazards Product dust may be irritating to eyes, skin and respiratory system.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substances which occur in nature.

Components		CLP Classification	Product identifier
Ground garnet contains silicon, iron, aluminum, magnesium, titanium, calcium, manganese	> 99%	-	CAS-No.: - EC-No.: -

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
Skin contact	Before washing use a dry brush to remove dust from skin. Wash off with warm water and soap.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed May have irritant effect: on eyes, on skin, on air passages.

4.3. Indication of any immediate medical attention and special treatment needed None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons High volume water jet.

5.2. Special hazards arising from the substance or mixture The product itself does not burn.

5.3. Advice for firefighters

Special protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus. Wear protective suit.

Specific methods Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel Avoid dust formation. Do not breathe vapours/dust.

Advice for emergency responders Avoid dust formation. Evacuate personnel to safe areas.

6.2. Environmental precautions Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Minimize dust generation and accumulation. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. In case of insufficient ventilation, wear suitable respiratory equipment.

7.2. Conditions for safe storage, including any incompatibilities Store at room temperature in the original container. Keep container tightly closed. Keep in a dry place.

7.3. Specific end use(s) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	Respirable dust fraction: Permissible exposure limit: 10 mg/m ³ . Alveolar dust fraction: Permissible exposure limit: 3 mg/m ³ .
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8.2. Exposure controls

Appropriate engineering controls	General industrial hygiene practice. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes. Keep away from food and drink.
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Personal protection equipment

<i>Respiratory protection</i>	Respirator must be worn if exposed to dust. Respirator with P1 filter.
<i>Hand protection</i>	Normally none needed. Use gloves if repeated or prolonged contact is expected. Protective gloves recommended against mechanical irritation.
<i>Eye protection</i>	Avoid contact with eyes. Wear tight fitting safety goggles in case of dust formation. When grinding above eye-level, use safety goggles.
<i>Skin and body protection</i>	Long sleeved clothing.
<i>Thermal hazards</i>	No special measures required.
Environmental exposure controls	No special measures required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Granular powder.
Colour	Red brown.
Odour	None.
Odour Threshold	Not determined.
pH:	not applicable
Melting point/ freezing point:	ca. 1300°C
Boiling point or initial boiling point / range:	Not determined.
Flash point:	Not determined.
Evaporation Rate:	Not determined.
Flammability:	non-flammable
Lower and upper explosion limit:	Not determined.
Vapour pressure:	Not determined.
Relative vapour density:	Not determined.
Density and/or relative density:	2300-2500 kg/m ³
Water solubility:	insoluble

Partition coefficient n-octanol/water (log value):	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Kinematic viscosity:	Not determined.
Explosive properties:	Not explosive
Oxidising properties:	None

9.2. Other information

General Product Characteristics Bulk density: 1.0 - 1.6 g/ml.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	No decomposition if used as directed.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Avoid creating dust.
10.5. Incompatible materials	Strong acids and strong bases.
10.6. Hazardous decomposition products	None under normal use.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	No data is available on the product itself.
Skin corrosion/irritation	None.
Serious eye damage/eye irritation	Mechanical irritation of the eyes is possible.
Respiratory / Skin Sensitisation	None.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity (single exposure)	No data available.

Specific target organ toxicity (repeated exposure)	Prolonged and/or massive exposure to dust containing respirable crystalline silica can cause silicosis. This disease is a nodular pulmonary fibrosis caused by inhalation and deposition of mineral dust.
Aspiration hazard	No data available.
Human experience	This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity	No data available.
12.2. Persistence and degradability	Chemically non-reactive and insoluble in water. Mechanically separable (sedimentation, filtration, etc.).
12.3. Bioaccumulative potential	Does not bioaccumulate.
12.4. Mobility in soil	This product has no known eco-toxicological effects.
12.5. Results of PBT and vPvB assessment	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
12.6. Other adverse effects	No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. EWC waste disposal No: 12 01 17.
Contaminated packaging	Dispose of as unused product. Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID	Not regulated.
IMDG	Not regulated.
IATA	Not regulated.
Further Information	Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

15.2. Chemical safety assessment Not required.

SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: 1 - 15.

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
EWC: European Waste catalogue code
PEL: Permissible Exposure Limit

Key literature references and sources for data According to information supplied by the manufacturer.

Classification procedure Calculation method.

Full text of phrases referred to under sections 2 and 3 None.

Instructions for use Restricted to professional users.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.