

Garnet

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Issue date: 21.06.2024



Version: 1

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

1.1. Product identifier

Trade name: Garnet
Chemical name: Almandine
Requirement for safety data sheet: Not required according to REACH Regulation (EC) No. 1907/2006, Article 31.

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

Relevant identified uses: Grit blasting

1.3. Details of the supplier of the safety data sheet

Clemco Norge AS
Industriveien 8
1481 Hagan
Norge
Tel.: +47 23 12 51 20
E-post: clemco@clemco.no
www.clemco.no

1.4. Emergency telephone number

Giftinformasjonen (Norway): +47 22 59 13 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP):
Not classified.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP):
No labelling acquired.

2.3. Other hazards

PBT / vPvB: This substance does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.
Endocrine disrupting properties: The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name: Almandine
CAS-no.: -
Comments: Natural mineral, Almandin.

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Contains 1% Ilmenite, 0.25% Zircon, < 0.5 % quartz.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:	In case of doubt or persistent symptoms, consult always a physician. Emergency telephone number, see section 1.4.
In case of inhalation:	Remove person to fresh air and keep comfortable for breathing.
In case of skin contact:	Wash skin with water. Take off contaminated clothing and wash it before reuse.
In case of contact with eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
In case of ingestion:	Rinse mouth. Give water to drink. If discomfort persist, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

In case of inhalation:	Dust from this product may cause respiratory irritation.
In case of skin contact:	Dust may irritate the skin in a mechanical way.
In case of contact with eyes:	Dust may irritate eyes mechanically.
In case of ingestion:	May cause discomfort.

4.3. Indication of any immediate medical attention and special treatment needed

Other information:	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Not combustible.
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5.3. Advice for firefighters

Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:	Ventilate spillage area. Do not breathe dust. Use personal protective equipment as required. Refer to section 8.
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:	Avoid dust formation. Sweep up or vacuum up the product.
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Other information: Dispose of materials or solid residues at an authorized site. Refer to section 13.

6.4. Reference to other sections

For further information refer to section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Avoid dust formation. Do not breathe dust. Avoid contact with eyes. Wear personal protective equipment. Refer to section 8.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a dry place.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limit:

Local name (Norway)	Product identifier	Workplace exposure limit	Comments
Total inhalable dust:	-	10 mg/m ³	
Respirable dust:		5 mg/m ³	

Regulatory reference: FOR 2011-12-06 nr. 1358, Regulations concerning Action and Limit values (Norway)

8.2. Exposure controls

Appropriate engineering controls:

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Personal protective equipment must be chosen on the basis of the risk assessment. The supplier of the protective equipment can assist in the evaluation and choice of the equipment.

Personal protective equipment: During blasting an approved blast helmet/mask with compressed air supply together with protection clothing and gloves must be used to protect against rebounding blast media and dust.

Eye / face protection:

Eye protection: Chemical goggles or face shield.

Standard: EN 166

Hand protection:

Suitable gloves: Protective gloves. Leather.

Breakthrough time: Not relevant.

Glove thickness: Not relevant.

Standard: EN 388

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Skin protection:

Suitable protective clothing: Wear suitable protective clothing.

Respiratory protection:

Respiratory protection: In case of dust formation: Dust mask with filter type P2.
In case of insufficient ventilation, wear self-contained breathing apparatus.

Standard: EN 143. EN 12083

Environmental exposure controls:

Avoid release to the environment.

Other information:

Eye wash station should be available at the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Form:	Granular/sharp-edged
Colour:	Reddish / brownish red
Odour:	Odourless
Melting point / freezing point:	1250 °C
Boiling point:	Not relevant
Flammability:	Not relevant
Explosion limit:	Not relevant
Flash point:	Not relevant
Auto-ignition temperature:	No auto-ignition
Decomposition temperature:	No data available
pH:	Not relevant
Kinematic viscosity:	Not relevant
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (Log Pow):	No data available
Vapour pressure:	Not relevant
Density / relative density:	4.1 g/cm ³
Relative vapour density:	Not relevant
Particle characteristics:	0.2 - 0.6 mm

9.2. Other information

Comments: No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Assessment of classification, acute toxicity (oral),	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of classification, acute toxicity (dermal):	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of classification, acute toxicity (inhalation):	Not classified. (Based on available data, the classification criteria are not met.)

Skin corrosion / irritation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Serious eye damage/ irritation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Respiratory or skin sensitisation

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Germ cell mutagenicity

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Carcinogenicity

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Reproductive toxicity

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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STOT – single exposure

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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STOT – repeated exposure

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Aspiration hazard

Assessment of classification:	Not classified. (Based on available data, the classification criteria are not met.)
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Symptoms of exposure

In case of inhalation:	Dust from this product may cause respiratory irritation.
In case of skin contact:	Dust may irritate the skin in a mechanical way.
In case of contact with eyes:	Dust may irritate eyes mechanically.
In case of ingestion:	May cause discomfort.

11.2 Information on other hazards

Endocrine disruptors properties:	The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.
Other information:	Used product may contain contaminations with greater health risks than the original product.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute):	Not classified. (Based on available data, the classification criteria are not met.)
Hazardous to the aquatic environment, long-term (chronic):	Not classified. (Based on available data, the classification criteria are not met.)

12.2. Persistence and degradability

Persistence and degradability:	Not relevant. Contains only inorganic substances.
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12.3. Bioaccumulative potential

Bioaccumulative potential:	No bioaccumulation.
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12.4. Mobility in soil

Mobility:	Insoluble in water. Substance sinks in water.
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12.5. Results of PBT and vPvB assessment

PBT / vPvB:	This substance does not meet the PBT / vPvB criteria of REACH regulation, annex XIII.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties:	The substance does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.
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12.7. Other adverse effects

Additional information:	Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods:	Non hazardous waste. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Additional information:	The stated LoW code is indicative and must be considered in relation to the actual condition of the chemical. The final code must be determined by the user, based on the actual use of the chemical. Used product can be hazardous waste.
European List of Waste (LoW) code:	*12 01 16 - waste blasting material containing dangerous substances 12 01 17 - waste blasting material other than those mentioned in 12 01 16

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SECTION 14: Transport information

14.1. UN number

Not regulated.

14.2. UN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

14.6. Special precautions for user

Not regulated.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

References (laws/regulations)
(Norway):

Regulation No. 622 on classification labelling and packaging of substances and mixtures of substances (CLP).

Regulation No. 516 on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

FOR 2004-06-01 no 930, Waste Regulations, Ministry of Climate and Environment.

FOR 2009-04-01 no 384, on road transportation of dangerous goods.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms:

PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
Data sources:	Safety Data Sheet from the supplier/manufacturer.
Prepared by:	SDS-Chemie, Bente Frogner

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.