



# Garnet

## Product Safety Information Sheet

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

Issue date: 11/09/2020 Version: 1.0

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

#### 1.1. Product identifier

Trade name : Garnet  
Chemical name : Almandine

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Grit blasting

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Clemco Norge AS  
Industriveien 8  
1481 Hagan - Norge  
T +47 23 12 51 20  
[clemco@clemco.no](mailto:clemco@clemco.no) - [www.clemco.no](http://www.clemco.no)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Norway	Giftinformasjonen Helsedirektoratet	P.O. Box 7000 St. Olavs Plass 0130 Oslo	+47 22 59 13 00	Ambulance: 113

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

This substance/mixture 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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Almandine		100	Not classified

Comments : Natural mineral, Almandin. Contains 1% Ilmenite, 0.25% Zircon.  
< 0,5 % quartz

#### 3.2. Mixtures

Not applicable

# Garnet

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### 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.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Give water to drink. If discomfort persist, seek medical attention.

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

Symptoms/effects after inhalation	: Dust from this product may cause respiratory irritation.
Symptoms/effects after skin contact	: Dust may irritate the skin in a mechanical way.
Symptoms/effects after eye contact	: Dust may irritate eyes mechanically.
Symptoms/effects after ingestion	: May cause discomfort.

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

Treat symptomatically.

### 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 production. Sweep up or vacuum up the product.
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 production. 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.

# Garnet

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Almandine	
Norway	Total inhalable dust: 10 mg/m <sup>3</sup> Respirable dust: 5 mg/m <sup>3</sup>

Reference : Regulations concerning Action and Limit Values, 06.12.2011 no. 1358 (Norwegian Labour Inspection Authority)

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide adequate general and local exhaust ventilation.

#### 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.

Hand protection:
Protective gloves. Leather. EN 388

Eye protection:
Chemical goggles or face shield. EN 166

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Dust production: dust mask with filter type P2 or P3. EN 143. In case of insufficient ventilation, wear suitable respiratory equipment. EN 12083

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Eye wash station must be available at the workplace.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder. 0.2 - 0.6 mm.
Colour	: Reddish / brownish red.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: 1250 °C
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available

# Garnet

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Flammability (solid, gas)	: Non flammable.
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 4.1 g/cm <sup>3</sup>
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Not classified as oxidizing.
Explosive limits	: Not applicable

### 9.2. Other information

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.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

None to our knowledge.

### 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 toxicological effects

<b>Acute toxicity (oral)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Acute toxicity (dermal)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Acute toxicity (inhalation)</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Skin corrosion/irritation</b>	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Dust may irritate the skin in a mechanical way.
<b>Serious eye damage/irritation</b>	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
Additional information	: Dust may irritate eyes mechanically
<b>Respiratory or skin sensitisation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Germ cell mutagenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Carcinogenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Reproductive toxicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>STOT-single exposure</b>	: Not classified (Based on available data, the classification criteria are not met)

# Garnet

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Additional information	: Dust from this product may cause respiratory irritation
<b>STOT-repeated exposure</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Aspiration hazard</b>	: Not classified (Based on available data, the classification criteria are not met)
Other information	: Used product may contain contaminations with greater health risks than the original product.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### 12.2. Persistence and degradability

<b>Garnet</b>	
Persistence and degradability	Not relevant. Contains only inorganic substances.

### 12.3. Bioaccumulative potential

<b>Garnet</b>	
Bioaccumulative potential	No bioaccumulation.

### 12.4. Mobility in soil

<b>Garnet</b>	
Ecology - soil	Insoluble in water. Substance sinks in water.

### 12.5. Results of PBT and vPvB assessment

<b>Garnet</b>	
This substance/mixture 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	

### 12.6. Other adverse effects

No additional information available

## 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	: 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

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Almandine is not on the REACH Candidate List

Almandine is not on the REACH Annex XIV List

Garnet is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Garnet is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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Abbreviations and acronyms:	
PBT	Persistent Bioaccumulative Toxic

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vPvB	Very Persistent and Very Bioaccumulative
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Data sources : Safety Data Sheet from the supplier/manufacturer.

Other information : Compiled 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.*