

SAFETY DATA SHEET according to 1907/2006/EC

Trade name: GARNET

Issue date: 01.10.2013

1 Identification of the substance/preparation and of the company/undertaking

- 1.1 Trade name: **GARNET**
- 1.2 Use of the substance/preparation: Blasting / cutting abrasive
- 1.3 Company identification: **A) Supplier**
- AMPECO GmbH
Poststrasse 5
46535 Dinslaken
Germany
- Contact person: Matthias Krakow
Phone: +49 172 7942485
e-mail: matthias.krakow@ampeco.de

2 Potential hazards:

- 2.1 Hazards to humans and the environment (R-phrases):
– No hazards to humans and the environment in as-delivered condition –
- 2.2 Other information:
When using abrasives, mineral dust can occur which poses a risk to health.

3 Composition/information on ingredients:

- 3.1 Chemical composition:
Natural mineral almandite (garnet / iron aluminium silicate according to chemical formula $\text{Fe}_3\text{Al}_2(\text{SiO}_4)_3$)

SiO ₂	35 %
Al ₂ O ₃	21 %
Fe ₂ O ₃	31%
MgO	8 %
CaO	1,5 %

(Approximate values as natural product.)

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3.2 EINECS No.: Not applicable

3.3 CAS No.: Not applicable

3.4 Hazardous ingredients: Not applicable

3.5 Other information: None

4 First aid measures:

4.1 Skin contact: No special measures required.

4.2 Eye contact: Abrasive particles may be sporadically retained by the eye fluid. Rinse with plenty of water if irritation occurs.

4.3 Ingestion: No hazard known.

4.4 Inhalation: No special measures required.

4.5 Advice to physician: The abrasive can provoke irritation of cornea and conjunctiva.

5 Fire fighting measures: Not applicable

6 Accidental release measures:

6.1 Personal safety precautions: Not applicable

6.2 Measures for cleaning up: Collect mechanically. Store in suitable container and dispose of properly.

6.3 Environmental protection measures: Not applicable

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6.4 Other information: None

7 Handling and storage:

7.1 Handling: Avoid dust formation.

7.2 Information on protection against explosion and fires: Not applicable

7.3 Storage requirements: Store dry.

7.4 Information about storage in one common facility: No restrictions

7.5 Storage class: 13; non-flammable solid

7.6 Other information: None

8. Exposure controls / personal protection:

8.1 Exposure limits: Not applicable

8.2 Personal protective equipment:

8.2.1 Breathing equipment: Use class FFP2 dust respirator.

8.2.2 Hand protection: Wear protective gloves.

8.2.3 Eye protection: Wear safety glasses.

8.2.4 Body/skin protection: Wear protective dust suit.

8.2.5 Hygiene measures: Change clothes after using Garnet. Clean skin with warm water and pH-neutral soap. Do not eat, drink or smoke.

8.2.6 Other information: Keep protective clothing separate from street clothes. Follow relevant safety instructions when working with abrasives.

9. Physical and chemical properties: (values and units as per Directive 67/548/EC)

9.1 Appearance

9.1.1 Physical state and shape: Solid, angular particles

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9.1.2 Colour:	Red / brown
9.1.3 Odour:	None
9.2 Safety-relevant data	
9.2.1 Boiling point/boiling range:	Not applicable
9.2.2 Change in state:	Melting point/melting range approx. 1,280 °C
9.2.3 Flash point:	Not applicable
9.2.4 Flammability:	Not applicable
9.2.5 Ignition temperature:	Not applicable
9.2.6 Auto-flammability:	Not applicable
9.2.7 Oxidizing properties:	None
9.2.8 Explosive properties:	Not applicable
9.2.9 Explosion limits:	Not applicable
9.2.10 Vapour pressure:	Not applicable
9.2.11 Density:	4.1 g/cm ³
9.2.12 Solubility:	Not determined
9.2.13 Solubility in water:	Not determined
9.2.14 Solubility in fat:	Not determined
9.2.15 Partition coefficient:	Not determined
9.2.16 pH:	Not determined
9.2.17 Solvent content:	Not applicable
9.2.18 Solvent separation test:	Not applicable
9.2.19 Viscosity:	Not determined

10 Stability and reactivity:

10.1 Thermal decomposition:	Not applicable
10.2 Hazardous reactions:	Not applicable
10.3 Hazardous decomposition products:	Not applicable
10.4 Other information:	Not applicable

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11 Toxicological information:

11.1	Acute effects/toxicity (LD50/LC50):	Not applicable
11.2	Sensitisation:	Not applicable
11.3	Irritant and corrosive properties:	Dust in concentrations exceeding the maximum recommended values may cause irritations to eyes and respiratory system.
11.4	Long-term exposure effects:	None
11.5	CMR effects:	None
11.6	Practical experience:	None known
11.7	Other information:	Refer to numeral 2.2 above.

12 Ecological information:

12.1	Environmental hazard classification according to hazard symbol "N":	Not applicable
12.2	Information on elimination:	Not applicable
12.3	Ecotoxicity (e.g. impact on sewage treatment plants):	Not applicable
12.4	Other ecological information:	
	12.4.1 COD:	Not applicable
	12.4.2 BOD:	Not applicable
	12.4.3 AOX:	Not applicable
12.5	Other information:	Poses no hazard to water.

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13 Disposal considerations:

- 13.1 Waste code number according to AVV: EAK 01 04
- 13.2 Waste description: Waste from physical and chemical processing of non-metal containing mineral resources.
- 13.3 Recommendations for disposal of packaging: None
- 13.4 Other information: The unused product can be disposed of in compliance with the legal regulations under the above-named AVV waste code number.

14 Transport information:

- 14.1 Land transport ADR/RID and GGVS/GGVE: Not classified as hazardous material.
- 14.2 Sea transport IMDG/GGVSEE: Not classified as hazardous material.
- 14.3 Air transport ICAO-TI and IATA-DGR: Not classified as hazardous material.
- 14.4 Other information: The unused product is not considered a hazardous material for transport by any mode of transport and is not subject to transport regulations.

15 Regulatory information:

- 15.1 Labelling according to Directive 67/584/EEC and GefStoffV: Not applicable
- 15.2 R-phrases Not applicable
- 15.3 S-phrases Not applicable

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- 15.4 Special labelling of certain preparations: Not applicable
- 15.5 National regulations: Not applicable
- 15.5.1 Information on restrictions of occupation
- 15.5.2 German statutory order on hazardous incidents (StörfallV): Not applicable
- 15.5.3 Classification according to German statutory order on flammable liquids (VbF):
Not applicable
- 15.5.4 German clean air directive (TA Luft): Not applicable
- 15.5.5 Water hazard class: For the unused product there are no water hygiene concerns within Zones I – III / Zones I – IV of drinking water and mineral spa protection areas.
- 15.5.6 Restrictions and statutory orders: None

16 Other information:

- 16.1 The information provided in this Safety Data Sheet is correct to the best of our knowledge and information at the date of its publication. The information given is intended to describe the unused product with regard to safety requirements. It shall therefore not be construed as guaranteeing specific characteristics of the product described.