

Material Safety Data Sheet

according to regulation (EC) No 1906/2006 (REACH)



Product No: 1000

Trade name: Light metal shot GRANAL

Revision date: 2010-06-01

1 PRODUCT AND COMPANY IDENTIFICATION

Trade name: Light metal shot GRANAL

Article No:

Product category: Light-metal abrasive

Intended use: cleaning, surface-finishing of light-metal materials

Manufacturer: Eisenwerk Würth GmbH
Jagstfelder Straße 14
D-74177 Bad Friedrichshall
www.eisenwerk-wuerth.de

Information contact: Technical management: 0049-7136-9898-32

Emergency telephone: Technical management: 0049-7136-9898-32

2 ADVERSE PHYSICOCHEMICAL EFFECTS

The unused product does not contain any components in concentrations which require a classification as a hazardous substance according to regulation (EC) No 548/1967.

During mechanical application (e.g. in blasting machines), dust and vapour may occur. The usual precautions should be taken. The statutory limit values for dust and vapour in your country have to be observed.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation/Identification number

| Main ingredients | Hazard symbols. | Percent by weight | R-Phrases | CAS | EINECS |
|------------------|-----------------|-------------------|-----------|-----------|-----------|
| Aluminium | -- | >90 | -- | 7429-90-5 | 232-072-3 |
| Copper | -- | 5,5-7,5 | -- | 7440-50-8 | 231-159-6 |
| Zinc | -- | <1,5 | -- | 7440-66-6 | 231-175-3 |
| Iron | -- | <1 | -- | 7439-89-6 | 231-096-4 |
| Silicon | -- | <1,6 | -- | 7440-21-3 | 231-130-8 |

The ingredients mentioned above are not free available. All ingredients are bond firmly in the alloy matrix.

4 FIRST AID MEASURES

In case of inhalation: Ensure sufficient fresh air supply and consult a physician if necessary.

In case of skin contact: No measures necessary.

In case of eye contact: Rinse out with plenty of water for at least 10 minutes with the eyelids held wide open. Consult an ophthalmologist.

In case of ingestion: Irrelevant.

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5 FIRE-FIGHTING MEASURES

The unused product is not flammable. Extinguishing media in adaption to the immediate neighbourhood.

6 ACCIDENTAL RELEASE MEASURES

For the unused product, no special measures are necessary.

Spilled material should be removed immediately by dry cleaning.

7 HANDLING AND STORAGE

Handling: No further requirements.

Storage: Keep in a dry place.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Specific control parameters are only defined for the elements in the alloy, whereas no such limits have been established for the alloy as such in the EC.

Dust and vapor have to be maintained below the statutory limits in your country by providing adequate suction facilities.

Hand protection: Not necessary. Skin protection cream is recommended.

Eye protection: Safety glasses.

Feet protection: Safety shoes are recommended.

Protective clothing: Normal working clothes are sufficient.

Respiratory protection: Disposable dust mask is recommended, type FFP2.

Avoid contact with skin, eyes and mucosa.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|-----------------------------|
| Physical state: | solid |
| Colour: | silver-grey, metallic gloss |
| Odour: | none |
| pH-Value: | insoluble in water |
| Melting point: | 650°C |
| Boiling point: | 2467°C |
| Flash Point: | none |
| Ignition temperature: | none |
| Lower explosion limit: | no data available |
| Upper explosion limit: | no data available |
| Vapor pressure (20°C): | no data available |
| Vapor density: | no data available |
| Evaporation number (Ether): | no data available |

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Density: ~2,75 g/cm³
Bulk density: ~1,65 g/cm³ (depends on the grain class)
Solubility in water: insoluble in water
Dynamic viscosity: no data available

10 STABILITY AND REACTIVITY

Thermal decomposition: no data available
Conditions to be avoided: no data available
Hazardous reactions: no data available
Decomposition products: no data available

11 TOXICOLOGICAL INFORMATION

There are no quantitative data for the product. It can be assumed, that there are no toxic effects in case of an appropriate handling and use of the product.

Irritation to the skin: none
Irritation to the eyes: none
Sensitisation: none

12 ECOLOGICAL INFORMATION

The product is not soluble in water, no precautions required.

13 DISPOSAL INFORMATION

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

14 TRANSPORT INFORMATION

No dangerous good in sense of transport regulations.

15 REGULATORY INFORMATION

Labelling according to EC Directives: none
Hazard symbols: none
R-phrases: none
S-phrases: none

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16 OTHER INFORMATION

The indications made in this Safety Data Sheet are based on the present state of our know-how and experience. The Safety Data Sheet describes the unused product in view of safety requirements. The indications do not constitute any guarantee with regard to product and do not create a contractual legal relationship.

All information given above refers to the unused product. As a result of mechanical application changes in the chemical and physical properties could not be excluded. The chemical and physical properties of the waste strongly depend on the conditions of use. All indications made in this Safety Data Sheet concerning composition, dangers, first aid, fire-fighting measures, accidental release measures, handling and storage, exposure control and personal protection, physical and chemical properties, stability and reactivity, toxicological information, ecological information, disposal information, transport information and regulatory information are only valid for the unused product and not for abrasive waste.

It is the responsibility of the user to find out all the necessary information.

Sicherheitsdatenblatt erstellt durch: **ECONOVA Ingenieure + Berater GmbH**
Mallaustrasse 99 • 68219 Mannheim
Tel.: 0621 - 87683-0
Fax.: 0621 - 87683-44
www.econova.info
firma@econova.info