

# GRAFMETAL

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<b>Material Safety Data Sheet</b> <b>GRAFMETAL Universal paste for laser marking of metals</b>	
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifiers:** GRAFMETAL paste for laser marking of metals

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

**Product application:** Marking, engraving and cutting metals with CO<sub>2</sub> lasers

**1.3 Details of the supplier of the safety data sheet**

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**1.4 Emergency telephone**

Emergency telephone valid in your country.

+44 (0)870 8200418 (CHEMTREC)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Product definition:** mixture

**Classification according to Regulation (EC) No 1272/2008:** not classified

The product was not classified as dangerous according to Regulation EC No 1272/2008 with updates

**Hazards for humans:**

The product does not meet classification requirements according to current regulation concerning classification and labelling.

**Environmental hazard:**

The product is not harmful for the environment.

**2.2. Label elements:**

**Pictogram:** none

**Signal word:** none

**Hazard statement:** none

**Precautionary statement(s):** none

**2.3. Other hazards:**

No information about meeting PBT or vPvB criteria according to the 12th appendix of the REACH regulation.

**SECTION 3: Composition/information on ingredients**

The product does not contain components, which according to the best knowledge of the supplier are dangerous to health or environment or which have restrictions concerning their presence in the workplace and therefore it is not compulsory to disclose them in this section.

**SECTION 4: First aid measures**

**4.1 Description of first-aid measures**

**General advice**

If any symptoms occur, then please arrange for a medical help and transport the victim to the hospital. Show the container and the label to the doctor.

**If inhaled**

Is not harmful

**If swallowed:**

If big portion was swallowed, then administer warm water, provided that the sufferer is totally conscious.

**In case of skin contact:**

Is not harmful

**In case of eye contact:**

After eye contact: rinse out with plenty of water for at least 10 minutes. Call in ophthalmologist. Remove contact lenses.

**4.2 Most important symptoms and effects, both acute and delayed:**

The product is not harmful

**4.3 Indication of any immediate medical attention and special treatment needed:**

In the case of any disturbing symptoms, immediately arrange for medical help, show the container of the product and the label.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing media:** use extinguishing medium suitable for the surrounding fire

**Unsuitable extinguishing media:** none

**5.2 Special hazards arising from the substance or mixture**

None

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus and protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Not applicable

**6.2 Environmental precautions:**

Stop the leak, inform appropriate authorities, do not let the product to leak to the sanitation system, water or soil.

**6.3 Methods and materials for containment and cleaning up:**

Big amounts of the product should be walled and collected to containers. Contaminated surface should be rinsed with water.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Wear protective clothing, protective gloves and safety glasses. Do not eat nor drink in the vicinity of the mixture.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep in closed containers at room temperature.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Individual protective measures:**

Wash hands before and after working with the product.

**8.2 Exposure controls****Hand protection:**

Wear protective gloves, which are impermeable for liquids.

**Eye protection:**

Wear safety glasses for protection against splashes. While using the product during laser processing of metals it is necessary to close the device cover, so the laser beam will not be reflected toward any person. If the laser cover is not available for the particular device, then it is necessary to build one of polycarbonate or glass.

**Skin protection:**

Wear protective clothing.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance: paste

Colour: greyish-black  
pH: not applicable  
Odour: none  
Boiling point [°C]: >200  
Flow temperature [°C]: not applicable  
Melting point [°C]: <-10  
Flash point [°C]: not applicable  
Autoignition temperature [°C]: not applicable  
Explosive properties: the product is not volatile nor explosive  
Vapour pressure: < 0.1 hPa (w 20°C)  
Viscosity: no data  
Density at 20°C [g/cm<sup>3</sup>]: 1.03±0.05  
Solubility:  
    in water: < 0.01 g/100 ml  
    other solvents: soluble in aliphatic hydrocarbons

## **SECTION 10: Stability and reactivity**

### **10.1 Stability:**

The product is stable at recommended storage conditions

### **10.2 Reactivity**

At recommended condition the product is not reactive

### **10.3 Incompatible materials:**

No data

### **10.4 Conditions to avoid:**

Exposure to high temperatures, contact with open fire and sources of ignition

### **10.5 Hazardous decomposition products:**

Carbon oxides, soot

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects:**

#### **Acute toxicity:**

No data

#### **Health risk:**

No data

#### **Inhalation:**

The product is not volatile; when used with lasers gas vapours and soot suspension in the air may occur

#### **Skin:**

Is not dangerous

#### **Eyes:**

May cause mild eye irritation

#### **Swallowing:**

The product swallowed in very big quantities may cause mild threat to health.

## **SECTION 12: Ecological information**

### **12.1 Toxicity:**

No data about toxicity

### **12.2 Mobility in soil:**

The product is not water soluble

### **12.3 Bioaccumulative potential:**

No data available

### **12.4 Biodegradability:**

No data available

### **12.5 Results of PBT and vPvB assessment:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Do not flush to the sewer system. Do not let to the pollution of water. Do not burn used containers.

**Waste treatment:**

Waste classification (EWC):

08 01 12 Waste paint and varnish other than those mentioned in 08 01 11

**Disposal method:**

The product keeps its properties for a long time, so before disposal using the product should be considered.

**Container:**

Used containers should be recycled.

**SECTION 14: Transport information**

The product is not classified as dangerous for transport, so it can be transported with any means of transport.

**SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

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Observe work restrictions in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

**SECTION 16: Other information**

Use in accordance to the User manual provided by the manufacturer.

The product is available for professional use only, the manufacturer is not accountable for its incorrect use.

**Manufacturer:**

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