



SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: GRAVOBRASS.
Product code: GRAV 013.

Company/undertaking identification:

Registered company name: GRAVOTECH MARKING SAS.
Address: 56, avenue Jean Jaurès.10600.La Chapelle Saint Luc.France.
Telephone: +33 (0)3 25 41 65 65. Fax: +33 (0)3 25 79 04 25.
e-mail : info@gravograph.fr
<http://www.gravograph.com>

Emergency telephone: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.

Use of the substance/preparation:

Production of metallic articles.

2 - HAZARDS IDENTIFICATION

This product is not classified as flammable. Refer to the recommendations regarding the other products present on the site
This preparation is not classified as hazardous to health by directive 1999/45/EC.

Other data:

In case of melting, grinding, cutting, machining by erosion or any other method of manufacturing creating dust, smoke or oxide, follow the recommendations of paragraph 8.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)
This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
	7439-92-1	231-100-4	LEAD			2.5 <= x % < 10
	7440-50-8	231-159-6	COPPER			50 <= x % < 100

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If exposure to significant concentrations of fumes or dust, remove person to fresh air - Consult a doctor if necessary.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Wash the skin thoroughly with soap and water or a recognised cleaner.

In the event of swallowing:

Do not force vomiting.

Contact a doctor and show him/her the MSDS.

5 - FIRE-FIGHTING MEASURES

Not relevant.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Collect mechanically the product by the aspiration and/or sweeping.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Fire prevention:

Prevent access by unauthorised personnel.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Personnel shall wear regularly laundered overalls.

If this ventilation is insufficient to maintain the concentration of dust or fumes below the exposure limits, wear breathing apparatus.

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
7439-92-1	-	0.15	-	-	-	1

Exposure limit values (2003-2006):

UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7440-50-8	0.2 mg/m3	-	-	-	-	
Switzerland	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
7440-50-8	0,1 i	-	0,2 i	-	4x15	-
7439-92-1	0,1 i	-	0,8 i	-	4x15	B
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7440-50-8	0.2 mg/m3	-	-	-	-	
7440-50-8	1 mg/m3	2 mg/m3	-	-	-	
7439-92-1	-	-	0.15	-	-	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7440-50-8	0.2 mg/m3	-	-	-	-	
7440-50-8	1 mg/m3	-	-	-	-	
7439-92-1	0.05 mg/m3	-	-	-	-	

Respiratory protection:

With this preparation, particularly avoid inhaling dust.

Hand protection:

Type of gloves recommended :

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Wear safety goggles if dust.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state:	solid
Colour:	Copper - yellow.
Odour:	Odourless.

Important health, safety and environmental information:

pH of the substance or preparation:	not relevant.
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The pH is impossible to measure or its value is not relevant.

Flash point interval:	not relevant.
Vapour pressure:	not relevant.
Density:	> 1
Density:	8.43 (20°C)
Water solubility:	Insoluble.
Other information:	
Melting point/melting range :	880 - 895°C.

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

11 - TOXICOLOGICAL INFORMATION

The preparation contains no substance classified as hazardous per directive 67/548/EEC.
No data is available regarding the preparation itself.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

15 - REGULATORY INFORMATION

This preparation is not classified as hazardous to health by directive 1999/45/EC.

This product is not classified as flammable.

Classification by:

So called 'all preparations' Directive 1999/45/EC and its adaptations.
EC regulation 1272/2008 (CLP) and its adaptations (EC regulation 790/2009).

Particular provisions:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.
It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties