

# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING



#### 1.1. Product identifier

Product name: GRAVOBRASS

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

Production of metallic articles.

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

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

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

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



## Other emergency numbers

National Poisons Information Service of England: http://npis.org - NHS 111: dial 111 - National Poisons Information Centre of Ireland: 353 (1) 809 2166 - LUXEMBOURG: (+352) 8002 5500 - European Emergency Number Association (EENA): 112

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

## In compliance with EC regulation No. 1272/2008 and its amendments.

No labelling requirements for this mixture.



#### 2.3. Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

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.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures



## Composition:

Identification	Classification (EC) 1272/2008	Note	%
CAS: 7440-50-8		[1]	50 <= x % < 100
EC: 231-159-6			
REACH: 17-2119429821-40			
COPPER			
CAS: 7439-92-1		[1]	2.5 <= x % < 10
EC: 231-100-4		[6]	

REACH: 01-2119513221-59	[XVII]	
LEAD		



#### Information on ingredients:

[XVII] Restricted substance under Regulation (EC) No. 1907/2006 (REACH), Annex XVII.

- [1] Substance for which maximum workplace exposure limits are available.
- [6] Substances of very high concern (SVHC).

#### **SECTION 4: FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.



#### 4.1. description of first aid measures

#### 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 fresh, 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:

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

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

## In the event of swallowing:

Seek medical attention, showing the label.

Do not force vomiting.

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

No data available.

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

No data available.

## **SECTION 5: FIREFIGHTING MEASURES**

Non-flammable.

# 5.1. Extinguishing media

No data available.

## 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

# 5.3. Advice for firefighters

No data available.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

Prevent any material from entering drains or waterways.

## 6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming).

# 6.4. Reference to other sections

No data available.

# **SECTION 7: HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions for safe handling

Always wash hands after handling.

## Fire prevention:

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

## Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

#### **Packaging**

Always keep in packaging made of an identical material to the original.

#### 7.3. Specific end use(s)

No data available.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters



### Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :
7440-50-8	0.2 mg/m3	-	-	-	-
7439-92-1	0.05 mg/m3	-	-	-	-

- Australia (NOHSC: 3008, 1995):

CAS	TWA:	STEL:	Ceiling:	Definition :	Criteria :
7440-50-8	1 mg/m3	-	-	-	-
7439-92-1	0.15 mg/m3			Н	

- Austria (BGBI. II Nr. 156/2021) :

CAS	TWA:	STEL:	Ceiling:	Definition :	Criteria :
7440-50-8	0.1 A mg/m³	0.4 A mg/m³			
7439-92-1	0.1 E mg/m <sup>3</sup>	0.4 E mg/m³			

- Belgium (Royal decree of 11/05/2021):

CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :
7440-50-8	1 mg/m3	-	-	-	-
7439-92-1	0.05 mg/m3	-	-	-	-

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes :	TMP No:	
7439-92-1	-	0.15	-	-	-	1	

- Switzerland (Suva 2021):

CAS	VME	VLE	Valeur plafond	Notations
7440-50-8	0.1 ppm	0.2 ppm		
7439-92-1	0.1 ppm	0.8 ppm		

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA:	STEL:	Ceiling:	Definition :	Criteria :
7440-50-8	0.2 mg/m3	-	-	_	_

- USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits):

Control of the Contro						
	CAS	TWA:	STEL:	Ceiling :	Definition :	Criteria :
	7440-50-8	1 mg/m3	-	-	-	-
	7439-92-1	0.050 mg/m3				

## 8.2. Exposure controls

## Appropriate engineering controls

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



## Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## - Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

# - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

## - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.



## - Respiratory protection

Avoid inhaling dust.

Type of FFP mask:

Physical state

Wear a disposable half-mask dust filter in accordance with standard EN149/A1.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

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	Physical state :	Solid.			
<b>(</b>	Colour				
	Colour:	Copper - yellow.			
₹	Odour				
	Odour threshold :	Not stated.			
	Odour:	Odourless.			
€	Melting point				
	Melting point/melting range :	880 - 895°C.			
₹	Freezing point				
	Freezing point / Freezing range :	Not stated.			
₹	Boiling point or initial boiling point and boiling range				
	Boiling point/boiling range :	Not relevant.			
₹	Flammability				
	Flammability (solid, gas):	Not stated.			
4	Lower and upper explosion limit				
	Explosive properties, lower explosivity limit (%):	Not stated.			
	Explosive properties, upper explosivity limit (%):	Not stated.			
₹	Flash point				
	Flash point interval :	Not relevant.			
€	Auto-ignition temperature				
	Self-ignition temperature :	Not relevant.			
€	Decomposition temperature				
	Decomposition point/decomposition range :	Not relevant.			
€	pH				
	pH (aqueous solution) :	Not stated.			
	pH:	Not relevant.			
4	Kinematic viscosity				
	Viscosity:	Not stated.			
4	Solubility				
	Water solubility:	Insoluble.			
<b>S</b> D -	Fat solubility:	Not stated.			
4	•				
<b>S</b> .	Partition coefficient: n-octanol/water :	Not stated.			
	Vapour pressure				
6	Vapour pressure (50°C) :	Not relevant.			
<b>W</b>	Density and/or relative density				
	Density:	8.43 (20°C)			
4	Relative vapour density				
-	Vapour density :	Not stated.			
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## SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) GRAVOBRASS - GRAV013



9.2.1. Information with regard to physical hazard classes

No data available.



9.2.2. Other safety characteristics

No data available.

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

#### 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

Avoid:

- formation of dusts

#### 10.5. Incompatible materials

No data available.

#### 10.6. Hazardous decomposition products

No data available.

## **SECTION 11: TOXICOLOGICAL INFORMATION**



#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No data available.

#### 11.1.1. Substances

No toxicological data available for the substances.

### 11.1.2. Mixture

No toxicological data available for the mixture.



# 11.2. Information on other hazards



## Monograph(s) from the IARC (International Agency for Research on Cancer):

CAS 7439-92-1: IARC Group 2B: The agent is possibly carcinogenic to humans.

## **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

#### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

#### 12.2. Persistence and degradability

No data available.

## 12.3. Bioaccumulative potential

No data available.

# 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

No data available.



## 12.6. Endocrine disrupting properties

No data available.



## 12.7. Other adverse effects

No data available.



## German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

Nicht wassergefährdend : Not hazardous for water.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

## 13.1. Waste treatment methods

Do not pour into drains or waterways.

## SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) **GRAVOBRASS - GRAV013**



#### Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, 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.

#### **SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.



14.1. UN number or ID number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

# **SECTION 15: Regulatory information**

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



Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)



#### Container information:

No data available.



Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture contains at least one restricted substance under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

https://echa.europa.eu/substances-restricted-under-reach. Please refer to Section 3 to identify the substance involved.



# Explosives precursors:

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.



## Particular provisions: No data available.



## German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws):

Nicht wassergefährdend: Not hazardous for water.

## 15.2. Chemical safety assessment

No data available.

## **SECTION 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 mixture must not be used for other uses than those specified in section 1 without having first obtained 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 in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.



## Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorization and Restriction of Chemical Substances.

STEL: Short-term exposure limit TWA: Time Weighted Averages

## SAFETY DATA SHEET (REGULATION (EC) n° 1907/2006 - REACH) GRAVOBRASS - GRAV013

TMP : French Occupational Illness table TLV : Threshold Limit Value (exposure)

AEV: Average Exposure Value.

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.