



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: GRAVOLASE METALLICS.
Product code: GRAV 017.

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>.

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.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

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:

INDEX	CAS	EC	Name	Symb.	R:	%
	110-30-5	203-755-6	N,N'-ÉTHYLENEDI(STÉARAMID E)	Xi	36/37/38	1 <= x % < 2.5

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
	13463-67-7	236-675-5	TITANIUM DIOXIDE			2.5 <= x % < 10
	7727-43-7	231-784-4	SULFATE DE BARYUM			1 <= x % < 2.5

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 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.

5 - FIRE-FIGHTING MEASURES

Not relevant.

Special protective equipment for fire-fighters:

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

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 the ventilation is insufficient to maintain the concentration of dust 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°:
13463-67-7	-	10	-	-	-	-

Exposure limit values (2003-2006):

UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7727-43-7	10 mg/m3	-	-	-	TI	
7727-43-7	4 mg/m3	-	-	-	R	
Switzerland	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
13463-67-7	3a	-	-	-	-	-
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7727-43-7	4 mg/m3	-	-	-	R	
13463-67-7	10 mg/m3	-	-	-	TI	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
7727-43-7	10 mg/m3	-	-	-	-	
13463-67-7	10 mg/m3	-	-	-	-	

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.

9 - PHYSICAL AND CHEMICAL PROPERTIES**General information:**

Physical state:	fluid liquid
Colour:	Various.
Odour:	Characteristic.

Important health, safety and environmental information:

pH of the substance or preparation:	not relevant.
The pH is impossible to measure or its value is not relevant.	
Flash point interval:	not relevant.
Vapour pressure:	not relevant.
Density:	> 1
Density:	1.05 - 1.12
Water solubility:	Insoluble.

Other information:

Self-ignition temperature:	454 °C.
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10 - STABILITY AND REACTIVITY

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

Conditions to avoid:

Avoid excessive heat.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Other data:

CAS 13463-67-7 : IARC Group 2B: The agent is possibly carcinogenic to humans.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

Other adverse effects:

Germany: WGK 1 (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

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 1 (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

Full text of risk phrases appearing in section 3:

R 36/37/38	Irritating to eyes, respiratory system and skin.
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