



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: GRAVOGLAS1.
Product code: GRAV 037.

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:

Flat or shaped items, obtained by different processes such as machining, heat or cold-forming, assembling.

2 - HAZARDS IDENTIFICATION

This product is not classified as flammable. Refer to the recommendations regarding the other products present on the site
May produce an allergic reaction.

Other data:

Thermal decomposition giving flammable and irritating products.
Formation of toxic products through combustion.

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:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

May produce an allergic reaction:

INDEX	CAS	EC	Name	Symb.	R:	%
607-035-00-6	80-62-6	201-297-1	METHYL METHACRYLATE	Xi F	11 37/38 43 Note(s): D	0 <= x % < 1

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:

In the event of inhalation, move patient to the open air. Keep warm and at rest.
If breathing is irregular or has stopped, proceed with artificial respiration and seek medical attention.
Remove particles from respiratory system.
Blow nose.

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:

Cool skin rapidly with cold water after contact with molten polymer.
If skin irritation persists, call a doctor.
In case of extensive burns, hospitalize.

In the event of swallowing:

Consult a doctor and show him the label.

5 - FIRE-FIGHTING MEASURES**Suitable extinguishing media:**

Sprayed water, foam, dry powder, carbon dioxide (CO₂).

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:

Prevent any material from entering drains or waterways.
Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

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.

Handling:

Do not breathe vapours/dust.
Handle cautiously to avoid cuts.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.
Observe precautions stated on label and also industrial safety regulations

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Storage:

Keep the container tightly closed in a dry place.

Specific use(s):

Recommended packaging material: Polyethylene.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Average concentrations in atmospheric dust inhaled:

- Total dust: TWA = 10 mg/m³
- Alveolar dust: VME = 5 mg/m³

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m ³ :	VLE-ppm:	VLE-mg/m ³ :	Notes:	TMP N°:
80-62-6	100	410	200	820	-	82

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-mg/m ³ :	VME-ppm:	VLE-mg/m ³ :	VLE-ppm:	Notes:
80-62-6	-	50	-	100	-

Exposure limit values (2003-2006):

Switzerland	VME-mg/m ³ :	VME-ppm:	VLE-mg/m ³ :	VLE-ppm:	Temps:	RSB:

80-62-6	210	50	420	100	4x15	S
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:		
80-62-6	50 ml/m3	210 mg/m3	2(l)	DFG, Y		
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
80-62-6	50 ppm	100 ppm	-	-	-	
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
80-62-6	50 ppm	100 ppm	-	-	-	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
80-62-6	50 ppm	100 ppm	-	-	-	

Respiratory protection:

With this preparation, particularly avoid inhaling dust.

Hand protection:

Type of gloves recommended :

- Butyl rubber
- Neoprene

Eye and face protection:

Wear safety goggles.

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

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

Physical state:	solid
-	Sheets - tubes.

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:	Flash point > 60°C
Vapour pressure:	not relevant.
Density:	> 1
Density:	1.19
Water solubility:	Insoluble.

Other information:

Self-ignition temperature:	430 °C.
Solubility in organic solvents:	- aldehydes - ketones - acetic esters - chlorinated solvents - aromatic solvents.
Decomposition temperature:	> 250°C.
Softening point:	> 103°C.

10 - STABILITY AND REACTIVITY

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

Hazardous decomposition products:

Thermal decomposition giving flammable and irritating products (methyl methacrylate) and toxic products (carbon monoxide and dioxide).

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Other data:

CAS 80-62-6 : IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Persistence and degradability:

Inert polymer : not biodegradable on the basis of its structure.

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

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).

Contains:

Contains 201-297-1	METHYL METHACRYLATE. May produce an allergic reaction.
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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

Full text of risk phrases appearing in section 3:

R 11	Highly flammable.
R 37/38	Irritating to respiratory system and skin.
R 43	May cause sensitisation by skin contact.