

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : ENGRAVING GEL Product code : GRAV 061.

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

Relevant identified uses: Etching gel.

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.

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 does not contain 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.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 57-55-6		[1]	10 <= x % < 25
EC: 200-338-0			
REACH: 01-2119456809-23			
PROPYLENE GLYCOL			
CAS: 56-81-5		[1]	10 <= x % < 25
EC: 200-289-5			
GLYCEROL			

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

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 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 :

Seek medical attention, showing the label.

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. In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO2)

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

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.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

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

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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 :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
56-81-5	10 mg/m3					
- Germany	/ - AGW (BAuA - TRG	S 900, 08/08/2019) :				
CAS	VME :	VME :	Excess	Notes		
56-81-5		200 mg/m ³		2 (I)		
- Belgium	(Arrêté du 09/03/2014	, 2014) :				
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
56-81-5	10 mg/m ³					
- France (INRS - ED984 / 2019-	1487) :				
CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
56-81-5	-	10	-	-	-	-
- Switzerla	and (SUVAPRO 2017)	:	1			
CAS	VME	VLE	Valeur plafond	Notations		
56-81-5	50 i mg/m ³	100 i mg/m ³		SSC		
- UK / WE	L (Workplace exposur	e limits, EH40/2005, 2	011) :			
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
57-55-6	150 ppm	- ppm				
	474 mg/m ³	- mg/m³				
56-81-5	- ppm	- ppm				
	10 mg/m ³	- mg/m³				
- USA / AI	HA WEEL (American	Industrial Hygiene Ass	ociation, Workplace E	nvironmental Expos	ure Limit, 2010) :	
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
57-55-6	10 mg/m3					
Predicted n	o effect concentratio	n (PNEC):				
PROPYL	ENE GLYCOL (CAS:	57-55-6)				
	ental compartment:	,	Soil.			
PNEC :			50 mg/kg			

Environmental compartment:	Fresh water.
PNEC :	260 mg/l
Environmental compartment:	Sea water.
PNEC :	26 mg/l

8.2. Exposure controls

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.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

- Hand protection

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

- Type of gloves recommended :
- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

- 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.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

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Gonoral	information	
General	IIIIOIIIIauoii	

Physical state :	Viscous liquid.
Important health, safety and environmental information	
pH :	Not stated.
	Slightly acidic.
Flash Point Interval :	FP > 100°C.
Vapour pressure (50°C) :	Not relevant.
Density :	>1
Water solubility :	Dilutable.
Viscosity :	2.2260 - 4.1340 Pa.s
pH range :	4.81 - 5.88

9.2. Other information

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 :

- frost
- heat

10.5. Incompatible materials

- Keep away from :
- reducing agents

- acids

- strong oxidising agents
- isocyanate

10.6. Hazardous decomposition products

- The thermal decomposition may release/form :
- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity :

GLYCEROL (CAS: 56-81-5) Oral route :

LD50 = 12600 mg/kg Species : Rat

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Dermal route :	LD50 = 21900 mg/kg	
	Species : Rat	
Inhalation route (Dusts/mist) :	LC50 > 2.75 mg/l	
11.1.2. Mixture		
No toxicological data available for the mixture.		
Monograph(s) from the IARC (International Agen	cy for Research on Cancer) :	
CAS 9003-01-4 : IARC Group 3 : The agent is not	classifiable as to its carcinogenicity to huma	ans.
ECTION 12 : ECOLOGICAL INFORMATION		
12.1. Toxicity		
12.1.1. Substances		
GLYCEROL (CAS: 56-81-5)		
Fish toxicity :	LC50 > 1000 mg/l	
	Duration of exposure : 96 h	
Crustacean toxicity :	EC50 > 10000 mg/l	
c. colucion toxicity :	Species : Daphnia magna	
	Duration of exposure : 24 h	
12.1.2. Mixtures		
No aquatic toxicity data available for the mixture.		
12.2. Persistence and degradability		
12.2.1. Substances		
GLYCEROL (CAS: 56-81-5)		
Chemical oxygen demand :	DCO = 1.16 g/g	
	ISO 15705 (Determination of the che Small-scale sealed-tube method)	emical oxygen demand index (ST-COD) -
Five-day biochemical oxygen demand :	DBO5 = 0.87 g/g	
Biodegradability :	Rapidly degradable.	
	DBO5/DCO = 0.75	
12.3. Bioaccumulative potential		
12.3.1. Substances		
GLYCEROL (CAS: 56-81-5)		
Octanol/water partition coefficient :	log Koe = -1.76	
12.4. Mobility in soil		
No data available.		
12.5. Results of PBT and vPvB assessment		
No data available.		
12.6. Other adverse effects		
No data available.		
German regulations concerning the classification	n of nazards for water (WGK, AwSV vom '	10/U4/2U1/, KBWS) :
WGK 1 : Slightly hazardous for water.		

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.

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, 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.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

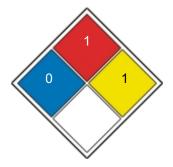
14.1. UN number

14.2. UN proper shipping name

- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards
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- 14.6. Special precautions for user
- **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. 2020/217 (ATP 14)
- Container information: No data available.
- Particular provisions :
- No data available.
- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) : WGK 1 : Slightly hazardous for water.
- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) : NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



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 :

PNEC : Predicted No-Effect Concentration

- 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.