

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: LMM-6000 METAL MARKING PASTE

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

Ceramic covering that will undergo heat treatment on glass and ceramics.

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.

Flammable solid, Category 2 (Flam. Sol. 2, H228).

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Carcinogenicity, Category 2 (Carc. 2, H351).

Specific target organ toxicity (single exposure), Category 1 (STOT SE 1, H370).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

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.

Hazard pictograms:







GHS08

GHS02

Signal Word: DANGER

Product identifiers:

042-001-00-9 MOLYBDENUM TRIOXIDE

603-001-00-X METHANOL

Hazard statements:

H228 Flammable solid. H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

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H351 Suspected of causing cancer.

H370 Causes damage to organs (if inhaled, if swallowed, in contact with skin).

Precautionary statements - Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/...

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Precautionary statements - Disposal :

P501 Dispose of contents/container at a disposal facility in accordance with local regulations.



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.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures



Composition:

| Identification | Classification (EC) 1272/2008 | Note | % |
|-------------------------|-------------------------------|--------|----------------|
| INDEX: 603-002-00-5 | GHS02 | [1] | 25 <= x % < 50 |
| CAS: 64-17-5 | Dgr | | |
| EC: 200-578-6 | Flam. Liq. 2, H225 | | |
| REACH: 01-2119457610-43 | | | |
| ETHANOL | | | |
| INDEX: 042-001-00-9 | GHS08, GHS07 | [1] | 25 <= x % < 50 |
| CAS: 1313-27-5 | Wng | [2] | |
| EC: 215-204-7 | Carc. 2, H351 | | |
| | Eye Irrit. 2, H319 | | |
| MOLYBDENUM TRIOXIDE | STOT SE 3, H335 | | |
| CAS: 14808-60-7 | | [1] | 10 <= x % < 25 |
| EC: 238-878-4 | | | |
| QUARTZ (SIO2) | | | |
| CAS: 12001-26-2 | | [1] | 10 <= x % < 25 |
| EC: 310-127-6 | | | |
| MICA | | | |
| INDEX: 603-001-00-X | GHS02, GHS06, GHS08 | [1] | 10 <= x % < 25 |
| CAS: 67-56-1 | Dgr | [XVII] | |
| EC: 200-659-6 | Flam. Liq. 2, H225 | | |
| REACH: 01-2119433307-44 | Acute Tox. 3, H331 | | |
| | Acute Tox. 3, H311 | | |
| METHANOL | Acute Tox. 3, H301 | | |
| | STOT SE 1, H370 | | |



Specific concentration limits:

| Identification | Specific concentration limits | ATE |
|---------------------|-------------------------------|-----|
| INDEX: 603-001-00-X | STOT SE 1 (Cut): H370 C>= 10% | |
| CAS: 67-56-1 | STOT SE 2: H371 3% <= C < 10% | |

| EC: 200-659-6 | STOT SE 1 (Oral): H370 C>= 10% | |
|-------------------------|--------------------------------|--|
| REACH: 01-2119433307-44 | STOT SE 2: H371 3% <= C < 10% | |
| | STOT SE 1 (Inh): H370 C>= 10% | |
| METHANOL | STOT SE 2: H371 3% <= C < 10% | |
| | | |



Information on ingredients:

(Full text of H-phrases: see section 16)

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

- [1] Substance for which maximum workplace exposure limits are available.
- [2] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

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:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

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 swallowing:

Do not give the patient anything orally.

Keep the person exposed at rest. Do not force vomiting.

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

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use:

- water jet

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

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.

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 non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

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

No data available.

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.

Remove and wash contaminated clothing before re-using.

Fire prevention:

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

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.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Avoid exposure - obtain special instructions before use.

Packages which have been opened must be reclosed carefully and stored in an upright position.

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.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

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 :

| | \ / \ A \ \ / O | \ /\ 4\\ | \ // E/O . | \// = | Mister | |
|----------------|---------------------|---------------------|---------------------|----------------------|----------------|--|
| - European Uni | ion (2022/431, 2019 | /1831, 2017/2398, 2 | 2017/164, 2009/161, | 2006/15/CE, 2000/39/ | CE, 98/24/CE): | |

| CAS | VME-mg/m3: | VME-ppm: | VLE-mg/m3: | VLE-ppm: | Notes : |
|---------|------------|----------|------------|----------|---------|
| 67-56-1 | 260 | 200 | - | - | Peau |
| | | | | | |

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

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria : |
|------------|-------------|----------|----------|--------------|------------|
| 64-17-5 | | 1000 ppm | | A3 | |
| 14808-60-7 | 0.05 mg/m3 | - | - | - | R |
| 12001-26-2 | 3 (R) mg/m3 | | | | |
| 67-56-1 | 200 ppm | 250 ppm | | Skin; BEI | |

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

| CAS | VME : | VME : | Excess | Notes |
|---------|-------|-----------|--------|-------|
| 64-17-5 | | 200 ppm | | 4(II) |
| | | 380 mg/m³ | | |
| 67-56-1 | | 200 ppm | | 4(II) |
| | | 270 mg/m³ | | |

- Australia (NOHSC: 3008, 1995):

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|------------|------------------------------|----------------------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm | | | Н | |
| | 1880 mg/m3 | | | | |
| 1313-27-5 | 5 mg/m3 | | | Н | |
| 14808-60-7 | 0.1 mg/m3 | | | | |
| 12001-26-2 | 2.5 (inspirable) mg/m3 | | | A* | |
| 67-56-1 | 200 ppm 262 mg/m3 | 250 ppm 328 mg/m3 | | Н | |

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

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|------------|--------------------------|------------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm | 2000 ppm | | | |
| | 1900 mg/m³ | 3800 mg/m³ | | | |
| 14808-60-7 | 0.05 A mg/m ³ | | | | |
| 67-56-1 | 200 ppm | 800 ppm | | | |
| | 260 mg/m³ | 1040 mg/m³ | | | |

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

| CAS | TWA: | STEL: | Ceiling: | Definition : | Criteria : |
|------------|-----------------------|-----------|----------|--------------|------------|
| 64-17-5 | 1000 ppm | | | | |
| | 1907 mg/m³ | | | | |
| 1313-27-5 | 0.5 mg/m3 | | | | |
| 14808-60-7 | 0.1 mg/m ³ | | | С | |
| 12001-26-2 | 3 mg/m³ | | | | |
| 67-56-1 | 200 ppm | 250 ppm | | D | |
| | 266 mg/m³ | 333 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: |
|------------|----------|------------|----------|------------|---------|---------|
| 64-17-5 | 1000 | 1900 | 5000 | 9500 | - | 84 |
| 1313-27-5 | - | - | - | 5 | - | - |
| 14808-60-7 | - | 0.1 A | - | - | - | 25 |
| 67-56-1 | 200 | 260 | 1000 | 1300 | (12) | 84 |

- Switzerland (Suva 2021) :

| CAS | VME | VLE | Valeur plafond | Notations |
|------------|-----------------------|------------------------|----------------|-----------|
| 64-17-5 | 500 ppm | 1000 ppm | | |
| | 960 mg/m ³ | 1920 mg/m ³ | | |
| 1313-27-5 | 5 i mg/m³ | | | |
| 14808-60-7 | 0.15 ppm | | | |
| 12001-26-2 | 3 ppm | | | |
| 67-56-1 | 200 ppm | 400 ppm | | |
| | 260 mg/m ³ | 520 mg/m ³ | | |

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

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|-----------|------------|----------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm | | | | |
| | 1920 mg/m³ | | | | |
| 1313-27-5 | 5 mg/m3 | 10 mg/m3 | | | |

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| 14808-60-7 | 0.3 mg/m3 | - | - | - | R |
|------------|-----------|-----------|---|----|---|
| 12001-26-2 | 0.8 mg/m³ | | | | |
| 67-56-1 | 200 ppm | 250 ppm | | Sk | |
| | 266 mg/m³ | 333 mg/m³ | | | |

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

| CAS | TWA: | STEL: | Ceiling : | Definition : | Criteria : |
|------------|------------|-------|-----------|--------------|------------|
| 64-17-5 | 1000 ppm | | | | |
| | 1900 mg/m3 | | | | |
| 1313-27-5 | 5 mg/m3 | | | | |
| 14808-60-7 | - | - | - | - | Т |
| 12001-26-2 | 20 mppcf | - | - | - | - |
| 67-56-1 | 200 ppm | | | | |
| | 260 mg/m3 | | | | |

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.

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

Prescription glasses are not considered as protection.

Provide eyewash stations in facilities where the product is handled constantly.



- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))



- Body protection

Suitable type of protective clothing:

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

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

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

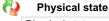
Likewise provide safety breathing apparatus for certain short tasks of an exceptional nature or for emergency interventions

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)
- A3 (Brown)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties



Odour threshold:

Physical state : Paste.

Colour

Not stated.



Colour: White.

Odour

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|---|--------------------------------------|
| Odour: | Characteristic. |
| 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. |
| 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 | 1.001.001.001.00 |
| Self-ignition temperature : | Not relevant. |
| Decomposition temperature | Not folevant. |
| Decomposition temperature Decomposition point/decomposition range : | Not relevant. |
| | Not relevant. |
| pH | late en l |
| pH (aqueous solution) : | Not stated. |
| pH: | Not relevant. |
| Kinematic viscosity | No. 44.1 |
| Viscosity: | Not stated. |
| Solubility | |
| Water solubility: | Soluble. |
| Fat solubility : | Not stated. |
| Partition coefficient n-octanol/water (log value) | |
| Partition coefficient: n-octanol/water : | Not stated. |
| Vapour pressure | |
| Vapour pressure (50°C): | Below 110 kPa (1.10 bar). |
| Density and/or relative density | |
| Density: | 11.7 |
| Relative vapour density | |
| Vapour density : | > 1 (Air=1) |
| 9.2. Other information | |
| % VOC : | 50 |
| 9.2.1. Information with regard to physical hazard classes | |
| No data available. | |
| 9.2.2. Other safety characteristics | |
| No data available. | |
| Evaporation rate | |
| Evaporation rate : | < 1 (BuAC=1) |

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

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

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10.5. Incompatible materials

Keep away from:

- strong oxidising agents
- acids

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 hazard classes as defined in Regulation (EC) No 1272/2008

Harmful if swallowed.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

Suspected human carcinogen.

Causes damage to organs.

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 14808-60-7: IARC Group 1: The agent is carcinogenic to humans.

CAS 1313-27-5: IARC Group 2B: The agent is possibly carcinogenic to humans.

CAS 64-17-5: IARC Group 1: The agent is 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.



SECTION 13: DISPOSAL CONSIDERATIONS

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

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

WGK 2: Hazardous for water.

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, 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:

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Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 -IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).



14.1. UN number or ID number

3175

14.2. UN proper shipping name

UN3175=SOLIDS or mixtures of solids (such as preparations and wastes) CONTAINING FLAMMABLE LIQUID, N.O.S. having a flash-point up to 60 °C

(ethanol, methanol)

14.3. Transport hazard class(es)

- Classification:



14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|---------|----------|----------|----------|---------|----------------|---------------------|-----------------|--------|
| | 4.1 | F1 | II | 4.1 | 40 | 1 kg | 216 274 601 | E2 | 2 | E |
| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ | Stowage Handling | Segregati on | |
| | 4.1 | - | II | 1 kg | F-A. S-I | 216 274 | E2 | Category B | - | |
| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ | |
| | 4.1 | - | II . | 445 | 15 kg | 448 | 50 kg | A46 | E2 | |
| | 4.1 | - | II | Y441 | 5 kg | - | - | A46 | E2 | |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.



14.7. Maritime transport in bulk according to IMO instruments

No data available.

N 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):

WGK 2: Hazardous for water.



Swiss ordinance on the incentive tax on volatile organic compounds :

64-17-5

éthanol, seulement s'il s'agit d'alcools impropres à la consommation (art. 31 de

la loi fédérale sur l'alcool)

67-56-1

méthanol (alcool méthylique)

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.

Wording of the phrases mentioned in section 3:

| H225 | Highly flammable liquid and vapour. |
|------|-------------------------------------|
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer . |
| H370 | Causes damage to organs . |



Abbreviations and acronyms:

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

CMR: Carcinogenic, mutagenic or reprotoxic.

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

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).

GHS02: Flame

GHS07 : Exclamation mark GHS08 : Health hazard

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