ProSolve Super Metal Markers

Safety Data Sheet

According to Regulation (EU) No 1907/2006 (REACH), No 830/2015 and Regulation (EC) No 1272/2008

Date Revised: 24/11/2022 / Version: 3

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Trade Name: ProSolve Super Metal Marker

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

Identified Uses: Semi-permanent marking of metals
UFI: CS10-Y05U-900R-X41Q

1.4. Emergency Telephone Number

National Health Service (NHS)

NHS England or Scotland: 111

NHS Wales: 0300 0604400

Northern Ireland: Call your local GP

For life-threatening emergencies, call 999 for an ambulance.

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Hazard classes and Hazard categories	Hazard Statements
Flammable liquid and vapour	H226

2.2. Label elements Hazard pictograms:

Hazard pictograms:

Signal word: Warning

Hazard statements:

H226	Highly flammable liquid and vapour

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303 + P378	In case of fire: Use extinguish powders, CO2 and Foams. DO NOT USE WATER
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F.
P403 + P235	Store in a well ventilated place. Keep cool.

2.3. Other hazards Results of PBT and vPvB assessment:

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

SECTION 3: Composition / Information On Ingredients

Description

Line Marker based on synthetic resin binder, solvent and pigments.

3.1. Substances N/A

3.2. Mixtures

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Ethanol		
CAS 64-17-5	40-50%	Flam. Liq. 2 H225,
Propyl acetate		
109-60-4	.05-1%	Flam. Liq. 2 H225 Eye Irrit. 2 H329 STOT SE 3 H336
Propatech T Retarder		
CAS 1569-02-4	10-20%	Flam. Liq. 3 H226 STOT SE 3 H336

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

SECTION 4: First Aid Measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable: The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, and powder.

Unsuitable: Water

5.2. Special hazards arising from the substance or mixture: Burning will produce irritating, toxic and obnoxious fumes. Vapours may ignite and flash to source.

5.3. Advice for fire-fighters: Self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Ensure adequate ventilation.

Use personal protective clothing. Keep away sources of ignition.

Advice for emergency responders:

Use personal protective equipment

6.2. Environmental protection measures

Inform pollution control authorities if product gets into the sewerage systems or open waters. Do not discharge into the drains or bodies of water.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material.

After taking up the material dispose according to regulation.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on Safety Handling:

Avoid contact with eyes and skin. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

Name	CAS No.	Exposure Limits
Ethyl Acetate	141-78-6	OEL 400 ppm (1400 mg/m3)
Denatured Alcohol	64-17-5	OEL 200 ppm (260 mg/m3)

8.2. Exposure controls

Wash hands during breaks and at end of work.

SKIN PROTECTION

Wear suitable protective coating and gloves.

EYE PROTECTION

Approved safety glasses/goggles.

RESPIRATORY PROTECTION

None if adequate ventilation / extraction is maintained.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: Viscous liquid

Odour: Alcohol/Pleasant

Colour: Various

pH (20°C): Not determined

Boiling Point: 80-100°C

Melting point / Freezing point: not determined

Flash point: <14°C

Vapourisation rate: Not determined

Flammable (solid): Not determined

Flammability (gas): Not determined

Ignition temperature: Not determined

Self ignition temperature: Not determined

Lower explosion limit: Not determined

Upper explosion limit: Not determined

Vapour pressure: Not determined

Relative density: Not determined

Vapour density: Not determined

Solubility in water: Insoluble in water

Solubility/other: Not determined

Partition coefficient n- octanol/water (log P O/W): Not determined

Decomposition temperature: Not determined

Viscosity dynamic: Not determined

Viscosity kinematic: Not determined

Oxidising properties: Not determined

Explosive properties: Not determined

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

SECTION 10: Stability and Reactivity

10.1. Reactivity:

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability: The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions:

Oxidising Agent

10.4. Conditions to avoid:

Heat, sparks, open flame.

10.5. Incompatible materials:

Strong acids, strong oxidising agents.

10.6. Hazardous decomposition products:

None under normal conditions. Burning will produce irritating, toxic and obnoxious fumes. Carbon oxides.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Skin	Irritation. May cause sensitization by contact.
Inhalation	May cause dizziness, headache or drowsiness.
Eyes	Irritation. Possible cornea damage with long-term exposure to fume.
Ingestion	Low toxicity – may cause nausea.

SECTION 12: Ecological Information

12.2. Persistence and degradability:

No data is available on this product.

12.3. Bioaccumulative potential:

No data is available on this product.

12.4. Mobility in soil:

No data is available on this product.

12.5. Results of PBT and vPvB assessment:

No data is available on this product.

12.6. Other adverse effects:

No data is available on this product.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport Information

	ADR/RID	**IMDG**	**IATA-DGR**
14.1. UN number:	1210	1210	1210
14.2. UN proper shipping name:	Printing Ink	Printing Ink	Printing Ink
14.3. Transport hazard class(es):	3	3	3
14.4. Packing group:	II	II	II
14.5. Environmental hazards:	No	No	No
14.6. Special precautions for user	**-**	**-**	**-**

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:

Not applicable

SECTION 15: Additional Regulatory Information

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

1272 / 2008 / EC (REACH) CLP

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other Information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H226: – Flammable liquid and vapour

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds

- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament

4. Regulation (EU) 2015/830 of the European Parliament

5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)

14. Regulation (EU) 2018/669 (XI Atp. CLP)

15. Regulation (EU) 2018/1480 (XIII Atp. CLP)

16. Regulation (EU) 2019/521 (XII Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12