

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** METAMARK ADHESIVE REMOVER

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

**Use of substance / mixture:** Automotive products. Anti-set off and adhesive agent.

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Leading Solvents  
Marston Business Park  
Rudgate  
Tockwith  
York  
YO26 7QF  
**Tel:** 01423 358058  
**Fax:** 01423 358923  
**Email:** [enquiries@leading-solvents.co.uk](mailto:enquiries@leading-solvents.co.uk)

**1.4. Emergency telephone number**

**Emergency tel:** 01423 358058 (Office Hours Only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H336

**Most important adverse effects:** Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H226: Flammable liquid and vapour.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness or dizziness.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS02: Flame

# SAFETY DATA SHEET

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GHS07: Exclamation mark

GHS09: Environmental



**Signal words:** Warning

**Precautionary statements:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P333+313: If skin irritation or rash occurs: Get medical advice.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P273: Avoid release to the environment.

### 2.3. Other hazards

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

##### D-LIMONENE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
227-813-5	5989-27-5	-	Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	50-70%

##### PROPAN-2-OL

200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	10-30%
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##### 1-METHOXY-2-PROPANOL

203-539-1	107-98-2	-	Flam. Liq. 3: H226; STOT SE 3: H336	10-30%
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BUTYL GLYCOL (BG) - REACH registered number(s): 01-2119475108-36

203-905-0	111-76-2	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H312; Acute Tox. 4: H332	1-10%
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2-METHOXYPROPANOL

216-455-5	1589-47-5	-	Flam. Liq. 3: H226; Repr. 1B: H360D; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318	<1%
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#### Section 4: First aid measures

##### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues

**Ingestion:** Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical advice.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

#### Section 5: Fire-fighting measures

##### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

##### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

##### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Hazardous ingredients:**

**D-LIMONENE**

[cont...]

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**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	100 ppm	150 ppm	-	-

**PROPAN-2-OL**

UK	999 mg/m <sup>3</sup>	1250 mg/m <sup>3</sup>	-	-
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**1-METHOXY-2-PROPANOL**

UK	375 mg/m <sup>3</sup>	560 mg/m <sup>3</sup>	-	-
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**BUTYL GLYCOL (BG)**

UK	25 ppm	50ppm	-	-
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**2-METHOXYPROPANOL**

UK	19 mg/m <sup>3</sup>	76 mg/m <sup>3</sup>	-	-
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**DNEL/PNEC Values**

**Hazardous ingredients:**

**BUTYL GLYCOL (BG)**

Type	Exposure	Value	Population	Effect
DNEL	Oral	3.2 mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	44.5 mg/kg bw/day	Consumers	Local
DNEL	Dermal	89 mg/kg bw/day	Workers	Systemic
DNEL	Dermal	38 mg/kg bw/day	Consumers	Systemic
DNEL	Dermal	75 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	123 mg/m <sup>3</sup>	Consumers	Local
DNEL	Inhalation	426 mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Inhalation	246 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	49 mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Inhalation	98 mg/m <sup>3</sup>	Workers	Systemic
PNEC	Fresh water	8.8mg/l	-	-
PNEC	Fresh water sediments	8.14 mg/kg	-	-
PNEC	Marine sediments	3.46 mg/kg	-	-
PNEC	Marine water	0.88 mg/l	-	-
PNEC	Soil (agricultural)	2.8mg/kg	-	-

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Gloves made of thick material. Nitrile rubber or neoprene gloves. Breakthrough time of the glove material > 4 hours.

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**Eye protection:** Safety goggles. Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Blue

**Odour:** Perceptible odour

**Evaporation rate:** Not applicable.

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Slightly soluble

**Viscosity:** Not applicable.

**Boiling point/range°C:** 79-177

**Melting point/range°C:** Not applicable.

**Flammability limits %: lower:** 0.7

**upper:** 12.7

**Flash point°C:** 23 - 60

**Part.coeff. n-octanol/water:** Not applicable.

**Autoflammability°C:** >230

**Vapour pressure:** Not applicable.

**Relative density:** 0.852

**pH:** Approx. 7

**VOC g/l:** Not applicable.

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions. Stable at room temperature.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

[cont...]

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**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**D-LIMONENE**

ORL	MUS	LD50	5600	mg/kg
ORL	RAT	LD50	4400	mg/kg
SCU	MUS	LD50	3170	mg/kg

**PROPAN-2-OL**

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

**1-METHOXY-2-PROPANOL**

IVN	RAT	LD50	4200	mg/kg
ORL	MUS	LD50	11700	mg/kg
ORL	RAT	LDLO	3739	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
STOT-single exposure	-	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** No data available.

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**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN1993

**14.2. UN proper shipping name**

**Shipping name:** FLAMMABLE LIQUID, N.O.S.

**14.3. Transport hazard class(es)**

**Transport class:** 3

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Tunnel code:** D/E

**Transport category:** 3

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**Section 15: Regulatory information**

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

**Specific regulations:** Not applicable.

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H360D: May damage the unborn child.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.