



## Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

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Loctite 518

sds no. : 153476

V002.0

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### 1. Identification of the substance/preparation and of the company/undertaking

**Trade name:**  
Loctite 518

**Intended use:**  
Anaerobic

**Company name:**  
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### 2. Hazards identification

Non corrosive to skin in accordance with the in vitro test method, B40 Skin Corrosion - Human skin model assay, specified in Part B of Annex V to Directive 67/548/EEC., Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in sensitive individuals.

R41 Risk of serious damage to eyes.

R37/38 Irritating to respiratory system and skin.

### 3. Composition / information on ingredients

**Declaration of ingredients according to (EC) No 1907/2006:**

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Acrylic acid 79-10-7	201-177-9	1 - 5 %	Xn - Harmful; R20/21/22 R10 C - Corrosive; R35 N - Dangerous for the environment; R50
Cumene hydroperoxide 80-15-9	201-254-7	1 - < 3 %	T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 O - Oxidizing; R7 C - Corrosive; R34 N - Dangerous for the environment; R51, R53
Ethane-1,2-diol 107-21-1	203-473-3	1 - 5 %	Xn - Harmful; R22
2-Hydroxyethyl methacrylate 868-77-9	212-782-2	0,1 - 1 %	Xi - Irritant; R36/38 R43
Cumene 98-82-8	202-704-5	0,1 - 1 %	R10 Xn - Harmful; R65 Xi - Irritant; R37 N - Dangerous for the environment; R51, R53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

#### 4. First aid measures

**Inhalation:**

Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:**

Rinse with running water and soap.  
Seek medical advice.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Seek medical advice.

#### 5. Fire fighting measures

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Special protection equipment for firefighters:**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Hazardous combustion products:**

Oxides of carbon, oxides of nitrogen, irritating organic vapors., Sulphur oxides

#### 6. Accidental release measures

**Personal precautions:**

Avoid skin and eye contact.  
Ensure adequate ventilation.

**Environmental precautions:**

Do not let product enter drains.

**Clean-up methods:**

For small spills wipe up with paper towel and place in container for disposal.  
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

## 7. Handling and storage

**Handling:**

Use only in well-ventilated areas.

Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Storage:**

Store in original containers at 8-21C (46.4-69.8F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

## 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

Valid for

Great Britain

Basis

UK EH40 WELs

Ingredient	ppm	mg/m3	Type	Category	Remarks
ETHYLENE GLYCOL 107-21-1			Skin designation:	Can be absorbed through the skin.	ECTLV
ETHANE-1,2-DIOL, VAPOUR 107-21-1	40	104	Short Term Exposure Limit (STEL):		EH40 WEL
ETHANE-1,2-DIOL, PARTICULATE 107-21-1			Skin designation:	Can be absorbed through the skin.	EH40 WEL
ETHANE-1,2-DIOL, VAPOUR 107-21-1			Skin designation:	Can be absorbed through the skin.	EH40 WEL
ETHANE-1,2-DIOL, PARTICULATE 107-21-1		10	Time Weighted Average (TWA).		EH40 WEL
ETHANE-1,2-DIOL, VAPOUR 107-21-1	20	52	Time Weighted Average (TWA).		EH40 WEL
ETHYLENE GLYCOL 107-21-1	20	52	Time Weighted Average (TWA).	Indicative	ECTLV
ETHYLENE GLYCOL 107-21-1	40	104	Short Term Exposure Limit (STEL):	Indicative	ECTLV
CUMENE 98-82-8	25	125	Time Weighted Average (TWA).		EH40 WEL
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):		EH40 WEL
CUMENE 98-82-8			Skin designation:	Can be absorbed through the skin.	EH40 WEL
CUMENE 98-82-8			Skin designation:	Can be absorbed through the skin.	ECTLV
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV
CUMENE 98-82-8	20	100	Time Weighted Average (TWA).	Indicative	ECTLV

**Respiratory protection:**

Use only in well-ventilated areas.

**Hand protection:**

The use of chemical resistant gloves such as Nitrile are recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Wear protective glasses.

**Skin protection:**

Wear suitable protective clothing.

**General protection and hygiene measures:**

Good industrial hygiene practices should be observed.

## 9. Physical and chemical properties

### General characteristics:

Appearance	Gel
	Gel
	Red
Odor:	Mild

### Phys./chem. properties:

pH-value	not applicable
Boiling point	> 150 °C (> 302 °F)
Flash point	> 100,00 °C (> 212 °F)
Vapor pressure	< 10 mm hg
(27 °C (80.6 °F))	
Density	1,1 g/cm3
(80 °F (26.7 °C))	
Solubility (qualitative)	Slight
(Solvent: Water)	
VOC content	< 5 % (As defined in the Council Directive 2004/42/EC)
(1999/13/EC)	

## 10. Stability and reactivity

### Conditions to avoid:

Stable under normal conditions of storage and use.

### Materials to avoid:

Reaction with strong oxidants.  
Reaction with strong acids.  
Reducing agents.

### Hazardous decomposition products:

carbon oxides.  
Sulphur oxides  
nitrogen oxides  
Irritating organic vapours.

## 11. Toxicological information

### Oral toxicity:

May cause irritation to the digestive tract.

### Inhalative toxicity:

Irritating to respiratory system

### Skin irritation:

Irritating to the skin.

### Eye irritation:

Risk of serious damage to eyes

## 12. Ecological information

### Mobility:

Cured adhesives are immobile.

### Bioaccumulative potential:

No data available.

**Ecotoxicity:**

Hazardous components CAS-No.	Species	Exposure time	Value type	Value
Acrylic acid 79-10-7	Trout family (Salmonidae)	96 h	LC 50	27 mg/l
Cumene hydroperoxide 80-15-9	Ide, silver or golden orfe (Leuciscus idus)	48 h	LC 50	14 mg/l
Cumene hydroperoxide 80-15-9	Water flea (Daphnia magna)	24 h	EC 50	7 mg/l
Cumene 98-82-8	Trout family (Salmonidae)	96 h	LC 50	4,8 mg/l

**General ecological information:**

Do not empty into drains / surface water / ground water.

**13. Disposal considerations****Product disposal:**

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

**Waste code( ):**

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

**Disposal of uncleaned packages:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

**14. Transport information****General information:**

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

**15. Regulations - classification and identification****Indication of danger:**

Xi - Irritant

**Risk phrases:**

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

**Safety phrases:**

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S39 Wear eye/face protection.

S51 Use only in well-ventilated areas.

Contains 2-Hydroxyethyl methacrylate. May produce an allergic reaction.

## 16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

- R10 Flammable.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R34 Causes burns.
- R35 Causes severe burns.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R43 May cause sensitisation by skin contact.
- R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R50 Very toxic to aquatic organisms.
- R51 Toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R7 May cause fire.

### Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.