



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

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Loctite 221

SDS no. : 173033

V001.5

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

**Trade name:**

Loctite 221

**Intended use:**

Threadlocker

**Company name:**

Henkel Ireland Limited  
Product Safety & Regulatory Affairs  
Tallaght Business Park, Whitestown  
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Ireland

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**Emergency information:**

24 Hours Emergency Tel: +44(0)8701906777

### 2. Hazards identification

R20 Harmful by inhalation.

R36/37 Irritating to eyes and respiratory system.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. Composition / information on ingredients

**General chemical description:**

Methacrylate resin based threadlocker

**Declaration of ingredients according to EC/1907/2006:**

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Cumene hydroperoxide 80-15-9	201-254-7	> 1 - < 3 %	O - Oxidizing; R7 T - Toxic; R23 N - Dangerous for the environment; R51, R53 Xn - Harmful; R21/22, R48/20/22 C - Corrosive; R34
Cumene 98-82-8	202-704-5	> 0,1 - < 1 %	R10 Xn - Harmful; R65 Xi - Irritant; R37 N - Dangerous for the environment; R51, R53
N,N-dimethyl-o-toluidine 609-72-3	210-199-8	> 0,1 - < 1 %	T - Toxic; R23/24/25 R33 R52, 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 8-21°C (46.4-69.8°F) 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
CUMENE 98-82-8	20	100	Time Weighted Average (TWA).		EU-2000/39/EC
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):		EU-2000/39/EC
CUMENE 98-82-8			Skin designation	Can be absorbed through the skin.	EU-2000/39/EC
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

**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 liquid  
purple  
Odor: Characteristic

**Phys./chem. properties:**

pH-value 3,00 - 6,00  
( )  
Boiling point > 150,0 °C (> 302 °F)  
Flash point > 100 °C (> 212 °F)  
Vapor pressure < 0,13 mbar  
(25 °C (77 °F))  
Density 1,0800 g/cm3  
( )  
Solubility (qualitative) not miscible  
(Solvent: Water)  
Solubility (qualitative) Miscible  
(Solvent: Acetone)  
VOC content < 3,00 %  
(1999/13/EC)

## 10. Stability and reactivity

### Conditions to avoid:

Stable under normal conditions of storage and use.  
No decomposition if stored and applied as directed.

### Materials to avoid:

Peroxides.  
Reaction with strong bases  
Reaction with strong acids.  
Reaction with strong oxidants.

## 11. Toxicological information

### Oral toxicity:

May cause irritation to the digestive tract.  
This material is considered to have low toxicity if swallowed.

### Inhalative toxicity:

Harmful by inhalation.  
Irritating to respiratory system

### Skin irritation:

This product is considered to have low dermal toxicity.  
Prolonged or repeated contact may cause skin irritation.

### Eye irritation:

Irritating to eyes.

## 12. Ecological information

### Ecotoxicity:

Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

### Mobility:

Cured adhesives are immobile.

### Bioaccumulative potential:

Does not bioaccumulate.

### General ecological information:

Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.  
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(EWC ):

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:

Xn - Harmful



### Contains

Cumene hydroperoxide

### Risk phrases:

R20 Harmful by inhalation.

R36/37 Irritating to eyes and respiratory system.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety phrases:

S23 Do not breathe vapour.

S25 Avoid contact with eyes.

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

S51 Use only in well-ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

## 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.
- R21/22 Harmful in contact with skin and if swallowed.
- R23 Toxic by inhalation.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R33 Danger of cumulative effects.
- R34 Causes burns.
- R37 Irritating to respiratory system.
- R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R51 Toxic to aquatic organisms.
- R52 Harmful 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.