



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

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Loctite 278

sds no. : 173002

V005.0

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

Trade name:

Loctite 278

Intended use:

Adhesive

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)1442 278497

2. Hazards identification

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

3. Composition / information on ingredients

General chemical description:

Anaerobic Sealant

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

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
(octahydro-4,7-methano-1H-indenediy)bis(methylene) bismethacrylate 43048-08-4	256-062-6	> 10 - < 20 %	Xi - Irritant; R36/37/38
Hydroxypropyl methacrylate 27813-02-1	248-666-3	> 5 - < 10 %	Xi - Irritant; R36, R43
Methacryloyloxyethyl succinate 20882-04-6	244-096-4	> 5 - < 10 %	Xi - Irritant; R38, R41, R43
Cumene hydroperoxide 80-15-9	201-254-7	> 0,5 - < 2 %	T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 O - Oxidizing; R7 C - Corrosive; R34 N - Dangerous for the environment; R51, R53
Tributyl amine 102-82-9	203-058-7	> 0,1 - < 0,5 %	Xn - Harmful; R22 T - Toxic; R23/24 Xi - Irritant; R38 N - Dangerous for the environment; R51/53
Cumene 98-82-8	202-704-5	> 0,1 - < 0,5 %	R10 Xn - Harmful; R65 Xi - Irritant; R37 N - Dangerous for the environment; R51, R53
Maleic acid 110-16-7	203-742-5	> 0,1 - < 0,5 %	Xn - Harmful; R22 Xi - Irritant; R36/37/38 R43

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.

6. Accidental release measures

Personal precautions:

Avoid skin and eye contact.

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.
Avoid skin and eye contact.
Prolonged or repeated skin contact should be avoided

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
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.	ECLTV
CUMENE 98-82-8	50	250	Short Term Exposure Limit (STEL):	Indicative	ECLTV
CUMENE 98-82-8	20	100	Time Weighted Average (TWA).	Indicative	ECLTV

Respiratory protection:

Use only in well-ventilated areas.

Hand protection:

Avoid skin-contact.
Nitrile rubber gloves should be worn.
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 Green
Odor:	Characteristic

Phys./chem. properties:

Flash point	> 100 °C (> 212 °F)
Density (20 °C (68 °F))	1,1 - 1,14 g/cm ³
Solubility (qualitative) (Solvent: Water)	Insoluble
VOC content (1999/13/EC)	< 3 %

10. Stability and reactivity

Conditions to avoid:

Stable

Materials to avoid:

Reacts with strong oxidants.

Hazardous decomposition products:

carbon oxides.
May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

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

Sensitizing:

May cause sensitization by skin contact.

12. Ecological information

Mobility:

Cured adhesives are immobile.

Ecotoxicity:

Hazardous components CAS-No.	Species	Exposure time	Value type	Value

Cumene hydroperoxide 80-15-9	Ide, silver or golden orfe (Leuciscus idus) Water flea (Daphnia magna)	48 h 24 h	LC 50 EC 50	14 mg/l 7 mg/l
Cumene hydroperoxide 80-15-9				
Tributyl amine 102-82-9	Ide, silver or golden orfe (Leuciscus idus) Green algae (Scenedesmus quadricauda)	48 h 72 h	LC 50 EC 50	60 mg/l 8,2 mg/l
Tributyl amine 102-82-9				
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.

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.

Disposal must be made according to official regulations.

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

**Contains**

Hydroxypropyl methacrylate,
Methacryloyloxyethyl succinate,
Maleic acid

Risk phrases:

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

Safety phrases:

- S24 Avoid contact with skin.
- 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.
- S37 Wear suitable gloves.
- S39 Wear eye/face protection.

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.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R23/24 Toxic by inhalation and in contact with skin.
- R34 Causes burns.
- R36 Irritating to eyes.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- 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.
- R51 Toxic to aquatic organisms.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.