



Safety Data Sheet according to (EC) No 1907/2006

Page 1 of 9

Loctite 268

sds no. : 153641
V002.3

Revision: 11.10.2010
printing date: 07.06.2011

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

Product identifier:

Loctite 268

Relevant identified uses of the substance or mixture and uses advised against:

Threadlocker

Details of the supplier of the safety data sheet:

Henkel Ireland Limited
Product Safety & Regulatory Affairs
Tallaght Business Park, Whitestown
Dublin 24

Ireland

Phone: +353 (14046444)

Fax-no.: +353 (14519926)

ua-productsafety.uk@uk.henkel.com

Emergency telephone number:

24 Hours Emergency Tel: +44 (0)1442 278497

2. Hazards identification

Classification of the substance or mixture:

Classification (DPD):

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

Label elements (DPD):

Risk phrases:

Not classified as hazardous.

Other hazards:

None if used properly.

3. Composition/information on ingredients

General chemical description:

Threadlocker Stick

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EINECS REACH-Reg No.	content	Classification
Cumene hydroperoxide 80-15-9	201-254-7	> 0,1- < 0,9 %	Acute toxicity 4; Dermal H312 Specific target organ toxicity - repeated exposure 2 H373 Acute toxicity 3; Inhalation H331 Acute toxicity 4; Oral H302 Organic peroxides E H242 Chronic hazards to the aquatic environment 2 H411 Skin corrosion 1B H314
1-Methyl-2-pyrrolidone 872-50-4	212-828-1	> 0,05- < 0,5 %	Toxic to reproduction 1B H360D Serious eye irritation 2 H319 Specific target organ toxicity - single exposure 3 H335 Skin irritation 2 H315
N,N-dimethyl-o-toluidine 609-72-3	210-199-8	> 0,05- < 0,5 %	Acute toxicity 3; Inhalation H331 Acute toxicity 3; Dermal H311 Acute toxicity 3; Oral H301 Specific target organ toxicity - repeated exposure 2 H373 Chronic hazards to the aquatic environment 3 H412
Cumene 98-82-8	202-704-5	> 0,05- < 0,3 %	Flammable liquids 3 H226 Aspiration hazard 1 H304 Specific target organ toxicity - single exposure 3 H335 Chronic hazards to the aquatic environment 2 H411

Only dangerous ingredients for which a CLP classification is already available are displayed in this table.

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EINECS REACH-Reg No.	content	Classification
Cumene hydroperoxide 80-15-9	201-254-7	> 0,1 - < 0,9 %	T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 O - Oxidizing; R7 C - Corrosive; R34 N - Dangerous for the environment; R51, R53
1-Methyl-2-pyrrolidone 872-50-4	212-828-1	> 0,05 - < 0,5 %	Toxic for reproduction - category 2.; R61 Xi - Irritant; R36/37/38
N,N-dimethyl-o-toluidine 609-72-3	210-199-8	> 0,05 - < 0,5 %	R52, R53 T - Toxic; R23/24/25 R33
Cumene 98-82-8	202-704-5	> 0,05 - < 0,3 %	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

Description of first aid measures:

Inhalation:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

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.

Most important symptoms and effects, both acute and delayed:

No particular measures required.

Indication of any immediate medical attention and special treatment needed:

See section: Description of first aid measures

5. Firefighting measures

Extinguishing media:

Suitable extinguishing media:

Carbon dioxide, foam, powder
Fine water spray.

Extinguishing media which must not be used for safety reasons:

None known

Special hazards arising from the substance or mixture:

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released. In case of fire, keep containers cool with water spray.

Advice for firefighters:

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid skin and eye contact.
Ensure adequate ventilation.

Environmental precautions:

Waste disposal with the approval of the responsible local authority.

Methods and material for containment and cleaning up:

For small spills wipe up with paper towel and place in container for disposal.

Reference to other sections:

See advice in chapter 8

7. Handling and storage

Precautions for safe handling:

Use only in well-ventilated areas.
Avoid skin and eye contact.
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

Hygiene measures:

Good industrial hygiene practices should be observed.
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

Conditions for safe storage, including any incompatibilities:

Ensure good ventilation/extraction.
Store in a cool, well-ventilated place.

Specific end use(s):

Threadlocker

8. Exposure controls/personal protection**Control parameters:**

Valid for
Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
1-METHYL-2-PYRROLIDONE 872-50-4	75	309	Short Term Exposure Limit (STEL):		EH40 WEL
1-METHYL-2-PYRROLIDONE 872-50-4			Skin designation:	Can be absorbed through the skin.	EH40 WEL
1-METHYL-2-PYRROLIDONE 872-50-4	25	103	Time Weighted Average (TWA):		EH40 WEL
N-METHYL-2-PYRROLIDONE 872-50-4	10	40	Time Weighted Average (TWA):	Indicative	ECTLV
N-METHYL-2-PYRROLIDONE 872-50-4	20	80	Short Term Exposure Limit (STEL):	Indicative	ECTLV
N-METHYL-2-PYRROLIDONE 872-50-4			Skin designation:	Can be absorbed through the skin.	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

Exposure controls:**Respiratory protection:**

Use only in well-ventilated areas.

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30

minutes permeation time as per EN 374):

nitrile rubber (IIR; ≥ 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (IIR; ≥ 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). 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.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance	solid material wax red
Odor	Mild
pH	not applicable
Initial boiling point	> 149 °C (> 300.2 °F)
Flash point	Not applicable
Decomposition temperature	No data available.
Vapour pressure (20 °C (68 °F))	< 6,67 mbar
Density (ρ)	1,07 g/cm ³
Bulk density	No data available.
Viscosity	No data available.
Viscosity (kinematic)	No data available.
Explosive properties	No data available.
Solubility (qualitative) (Solvent: Water)	Slight
Solubility (qualitative) (Solvent: Acetone)	Not applicable
Solidification temperature	No data available.
Melting point	No data available.
Flammability	No data available.
Auto-ignition temperature	No data available.
Explosive limits	No data available.
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapor density	No data available.
Oxidising properties	No data available.

Other information:

No data available.

10. Stability and reactivity

Reactivity:

Strong oxidizing agents.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

See section reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.

Incompatible materials:

None if used properly.

Hazardous decomposition products:

carbon oxides.

11. Toxicological information**General toxicological information:**

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Inhalative toxicity:

May cause irritation to respiratory system.

Skin irritation:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
1-Methyl-2-pyrrolidone 872-50-4	LD50 LC50	5,010 mg/kg > 5,1 mg/l	oral inhalation	4 h	rat rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1-Methyl-2-pyrrolidone 872-50-4	moderately irritating		human	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1-Methyl-2-pyrrolidone 872-50-4	not irritating		rabbit	

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
1-Methyl-2-pyrrolidone 872-50-4	NOAEL=0,5 mg/l	inhalation	90 days 6 hrs/day, 5 days/wk	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

12. Ecological information

General ecological information:

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

In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used.

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Ecotoxicity:

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

Mobility:

Cured adhesives are immobile.

Persistence and Biodegradability:

The product is not biodegradable.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-Methyl-2-pyrrolidone 872-50-4	LC50	4.000 mg/l	Fish	96 h	Leuciscus idus	
1-Methyl-2-pyrrolidone 872-50-4	EC50	4.897 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-Methyl-2-pyrrolidone 872-50-4	EC50	> 500 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	
Cumene 98-82-8	LC50	4,8 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene 98-82-8	EC50	4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene 98-82-8	EC50	2,6 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Cumene hydroperoxide 80-15-9			18 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
1-Methyl-2-pyrrolidone 872-50-4		aerobic	99 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cumene 98-82-8		aerobic	86 %	

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
---------------------------------	--------	----------------------------------	------------------	---------	-------------	--------

Cumene hydroperoxide 80-15-9		9,1				OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene hydroperoxide 80-15-9	2,16					
1-Methyl-2-pyrrolidone 872-50-4	-0,11					
Cumene 98-82-8		35,5		Carassius auratus		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene 98-82-8	3,55				23 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

13. Disposal considerations

Waste treatment methods:**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

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.

Waste code

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

14. Transport information

General information:

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

15. Regulatory information

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

VOC content < 3 %
(1999/13/EC)

16. Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations 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.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- 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.
- R61 May cause harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R7 May cause fire.

- H226 Flammable liquid and vapour.
- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H360D May damage the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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.