



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

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LOCTITE 7471 150ml EN

sds no. : 179503  
V002.3

Revision: 22.08.2011  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**Product identifier:**

LOCTITE 7471 150ml EN

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

Intended use:

Primer, containing solvents

**Details of the supplier of the safety data sheet:**

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

Supplied by:  
**RS Components Ltd,**  
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**SECTION 2: Hazards identification**

**Classification of the substance or mixture:**

**Classification (DPD):**

Xi - Irritant

R38 Irritating to skin.

F+ - Extremely flammable

R12 Extremely flammable.

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

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

**Label elements (DPD):**

Xi - Irritant

F+ - Extremely flammable



**Risk phrases:**

- R12 Extremely flammable.
- R36 Irritating to eyes.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

**Safety phrases:**

- S23 Do not breathe spray.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.
- S51 Use only in well-ventilated areas.
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional labeling:**

- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
- Keep out of the reach of children
- For consumer use only: S2 Keep out of the reach of children
- S46 If swallowed, seek medical advice immediately and show this container or label.

Contains Benzothiazole-2-thiol. May produce an allergic reaction.

**Other hazards:**

The aerosol container is under pressure. Do not expose to high temperatures.

**SECTION 3: Composition/information on ingredients**

**General chemical description:**

Primer, containing solvents

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Acetone 67-64-1	200-662-2	60- 80 %	Flammable liquids 2 H225 Specific target organ toxicity - single exposure 3 H336 Serious eye irritation 2 H319
Propane 74-98-6	200-827-9	10- 20 %	Flammable gases 1 H220 Gases under pressure
Propan-2-ol 67-63-0	200-661-7	10- 20 %	Specific target organ toxicity - single exposure 3 H336 Flammable liquids 2 H225 Serious eye irritation 2 H319
Benzothiazole-2-thiol 149-30-4	205-736-8	0,1- 1 %	Skin sensitizer 1 H317 Chronic hazards to the aquatic environment 1 H410 Acute hazards to the aquatic environment 1 H400

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.	EC Number REACH-Reg No.	content	Classification
Acetone 67-64-1	200-662-2	>= 50 - <= 100 %	R66 Xi - Irritant; R36 F - Highly flammable; R11 R67
Propane 74-98-6	200-827-9	>= 10 - < 20 %	F+ - Extremely flammable; R12
Propan-2-ol 67-63-0	200-661-7	>= 10 - < 15 %	Xi - Irritant; R36 F - Highly flammable; R11 R67
Benzothiazole-2-thiol 149-30-4	205-736-8	>= 0,25 - < 1 %	R43 N - Dangerous for the environment; R50/53

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.

**SECTION 4: First aid measures****Description of 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.

**Most important symptoms and effects, both acute and delayed:**

Vapors may cause drowsiness and dizziness.

**Indication of any immediate medical attention and special treatment needed:**

See section: Description of first aid measures

### SECTION 5: Firefighting measures

**Extinguishing media:**

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**

None known

**Special hazards arising from the substance or mixture:**

None

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

**Advice for firefighters:**

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

**Additional information:**

In case of fire, keep containers cool with water spray.

### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Avoid skin and eye contact.

Ensure adequate ventilation.

**Environmental precautions:**

Do not let product enter drains.

**Methods and material for containment and cleaning up:**

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.

Dispose of contaminated material as waste according to Chapter 13.

**Reference to other sections:**

See advice in chapter 8

### SECTION 7: Handling and storage

**Precautions for safe handling:**

Use only in well-ventilated areas.

Vapours should be extracted to avoid inhalation.

Keep away from sources of ignition - no smoking.

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool, well-ventilated place.

Keep away from heat and direct sunlight.

**Specific end use(s):**

Primer, containing solvents

**SECTION 8: Exposure controls/personal protection****Control parameters:**Valid for  
Great Britain

Ingredient	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
ACETONE 67-64-1	1.500	3.620	Short Term Exposure Limit (STEL):		EH40 WEL
ACETONE 67-64-1	500	1.210	Time Weighted Average (TWA):		EH40 WEL
ACETONE 67-64-1	500	1.210	Time Weighted Average (TWA):	Indicative	ECTLV
PROPAN-2-OL 67-63-0	400	999	Time Weighted Average (TWA):		EH40 WEL
PROPAN-2-OL 67-63-0	500	1.250	Short Term Exposure Limit (STEL):		EH40 WEL

**Exposure controls:**

## Respiratory protection:

Use only in well-ventilated areas.  
Filter type: P2

## Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; &gt;= 0.4 mm thickness)

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

nitrile rubber (NBR; &gt;= 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.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties:**

Appearance	aerosol
Odor	yellow pungent
pH	not applicable
Initial boiling point	Not applicable
Flash point	Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	230 mm hg
Density ( $\rho$ )	0,8 g/cm <sup>3</sup>
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative)	Miscible

(Solvent: Water)	
Solubility (qualitative)	Soluble
(Solvent: Acetone)	
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

**Other information:**

No data available / Not applicable

### SECTION 10: Stability and reactivity

**Reactivity:**

Reaction with strong acids.  
Reacts with strong oxidants.

**Chemical stability:**

Stable under recommended storage conditions.

**Possibility of hazardous reactions:**

See section reactivity

**Conditions to avoid:**

Stable

**Incompatible materials:**

No data available.

**Hazardous decomposition products:**

Irritating organic vapours.

### SECTION 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.

**Oral toxicity:**

This material is considered to have low toxicity if swallowed.

**Inhalative toxicity:**

May cause headache and dizziness.

**Skin irritation:**

Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.

**Eye irritation:**

Irritating to eyes.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone 67-64-1	LD50	5.800 mg/kg	oral	4 h	rat	
	LC50	76 mg/l	inhalation		rat	
	LD50	> 15.688 mg/kg	dermal		rabbit	
Propan-2-ol 67-63-0	LD50	5.338 mg/kg	oral	4 h	rat	
	LC50	72,6 mg/l	inhalation		rat	
	LD50	12.870 mg/kg	dermal		rabbit	

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Propan-2-ol 67-63-0	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acetone 67-64-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Propan-2-ol 67-63-0	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Propan-2-ol 67-63-0	not sensitising	Buehler test	guinea pig	
Benzothiazole-2-thiol 149-30-4	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Benzothiazole-2-thiol 149-30-4	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Acetone 67-64-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Propan-2-ol 67-63-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
Benzothiazole-2-thiol 149-30-4	negative	intraperitoneal		mouse	

**Repeated dose toxicity**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Acetone 67-64-1	NOAEL=2500 ppm	oral: drinking water	13 weeks	rat	
Propan-2-ol 67-63-0	NOAEL=1500	inhalation	13 weeks 6 hours/day, 5 days/week	mouse	
Benzothiazole-2-thiol 149-30-4	NOAEL=375 mg/kg	oral: gavage	13 weeks 5 days/week	rat	

## SECTION 12: Ecological information

**General ecological 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.

**Ecotoxicity:**

Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.  
Do not empty into drains / surface water / ground water.

**Mobility:**

The product evaporates readily.

**Persistence and Biodegradability:**

No data available.

**Bioaccumulative potential:**

No data available.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Acetone 67-64-1	LC50	8.120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetone 67-64-1	EC50	6.098,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Propan-2-ol 67-63-0	LC50	9.640 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol 67-63-0	EC50	13.299 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Propan-2-ol 67-63-0	EC50	> 1.000 mg/l	Algae	96 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Benzothiazole-2-thiol 149-30-4	LC50	1,6 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Benzothiazole-2-thiol 149-30-4	EC50	4,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzothiazole-2-thiol 149-30-4	EC50	0,25 mg/l	Algae	96 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

Acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Propan-2-ol 67-63-0	readily biodegradable	aerobic	95 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Benzothiazole-2-thiol 149-30-4		aerobic	2,5 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acetone 67-64-1	0,24					
Propan-2-ol 67-63-0	0,05					OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Benzothiazole-2-thiol 149-30-4	2,34 - 2,5					

**SECTION 13: Disposal considerations****Waste treatment methods:**

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

Waste code

14 06 03 Other solvents and solvent mixtures

**SECTION 14: Transport information****Road transport ADR:**

Class: 2  
Packaging group:  
Classification code: 5F  
Hazard ident. number:  
UN no.: 1950  
Label: 2.1  
Technical name: AEROSOLS  
Tunnelcode: (D)

**Railroad transport RID:**

Class: 2  
Packaging group:  
Classification code: 5F  
Hazard ident. number: 23  
UN no.: 1950  
Label: 2.1  
Technical name: AEROSOLS  
Tunnelcode:

**Inland water transport ADN:**

Class: 2  
Packaging group:  
Classification code: 5F  
Hazard ident. number:  
UN no.: 1950  
Label: 2.1  
Technical name: AEROSOLS

**Marine transport IMDG:**

Class: 2.1  
Packaging group:  
UN no.: 1950  
Label: 2.1  
EmS: F-D ,S-U  
Seawater pollutant: -  
Proper shipping name: AEROSOLS

**Air transport IATA:**

Class: 2.1  
Packaging group:  
Packaging instructions (passenger) 203  
Packaging instructions (cargo) 203  
UN no.: 1950  
Label: 2.1  
Proper shipping name: Aerosols, flammable

**SECTION 15: Regulatory information**

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

VOC content 99 %  
(1999/13/EC)

## SECTION 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:

- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- 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.

### 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.