

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

LOCTITE SF 7471 known as LOCTITE 7471 150ML A/SOL IT

Page 1 of 13

SDS No.: 179503

V002.8 Revision: 22.05.2015

printing date: 06.12.2017

Replaces version from: 05.05.2014

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LOCTITE SF 7471 known as LOCTITE 7471 150ML A/SOL IT

#### **Contains:**

Acetone

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Primer, containing solvents

# 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-products a fety.uk@uk.henkel.com

# 1.4. Emergency telephone number

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

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification (CLP):

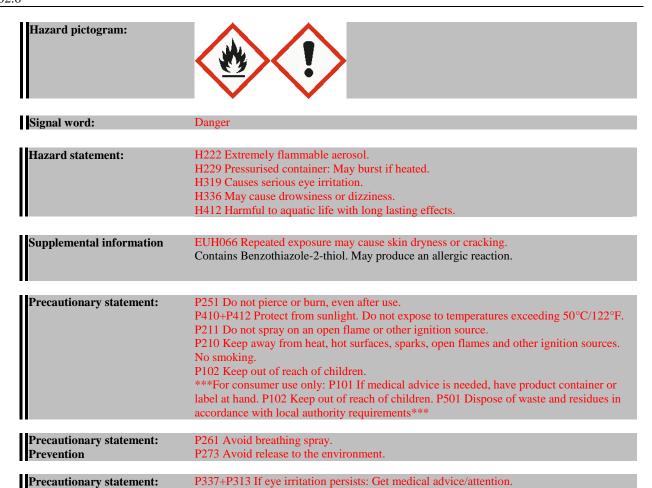
Flammable aerosols	Category 1
H222 Extremely flammable aerosol.	
H229 Pressurised container: May burst if heated.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central Nervous System	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

### 2.2. Label elements

#### Label elements (CLP):

MSDS-No.: 179503

V002.8



### 2.3. Other hazards

Response

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

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

#### 3.2. Mixtures

#### 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 01-2119471330-49	>= 75-<= 100 %	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Propane 74-98-6	200-827-9 01-2119486944-21	>= 10- < 25 %	Flam. Gas 1 H220 Press. Gas H280
Propan-2-ol 67-63-0	200-661-7 01-2119457558-25	>= 10- < 20 %	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336
Benzothiazole-2-thiol 149-30-4	205-736-8	>= 0,3-< 1 %	Skin Sens. 1 H317 Aquatic Chronic 1 H410 Aquatic Acute 1 H400

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.

# **SECTION 4: First aid measures**

# 4.1. 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.

4.2. Most important symptoms and effects, both acute and delayed

Vapors may cause drowsiness and dizziness.

EYE: Irritation, conjunctivitis.

Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media Suitable extinguishing media:

Carbon dioxide, foam, powder

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

None known

#### 5.2. Special hazards arising from the substance or mixture

None

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

#### 5.3. 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**

# 6.1. Personal precautions, protective equipment and emergency procedures

Avoid skin and eye contact.

Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not let product enter drains.

#### 6.3. 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 Section 13.

#### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Use only in well-ventilated areas.

Avoid skin and eye contact.

See advice in section 8

#### 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.

# 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Keep away from heat and direct sunlight.

# 7.3. Specific end use(s)

Primer, containing solvents

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Acetone 67-64-1 [ACETONE]	500	1.210	Time Weighted Average (TWA):		EH40 WEL
Acetone 67-64-1 [ACETONE]	1.500	3.620	Short Term Exposure Limit (STEL):		EH40 WEL
Acetone 67-64-1 [ACETONE]	500	1.210	Time Weighted Average (TWA):	Indicative	ECTLV
Propan-2-ol 67-63-0 [PROPAN-2-OL]	500	1.250	Short Term Exposure Limit (STEL):		EH40 WEL
Propan-2-ol 67-63-0 [PROPAN-2-OL]	400	999	Time Weighted Average (TWA):		EH40 WEL

# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value			Remarks	
	Compartment	periou	mg/l	ppm	mg/kg	others	
Acetone	aqua					21 mg/L	
67-64-1	(intermittent						
	releases)						
Acetone	STP					100 mg/L	
67-64-1							
Acetone	sediment				30,4 mg/kg		
67-64-1	(freshwater)						
Acetone	sediment				3,04 mg/kg		
67-64-1	(marine water)						
Acetone	soil				29,5 mg/kg		
67-64-1							
Acetone	aqua					10,6 mg/L	
67-64-1	(freshwater)						
Acetone	aqua (marine					1,06 mg/L	
67-64-1	water)						
Propan-2-ol	aqua					140,9 mg/L	
67-63-0	(freshwater)						
Propan-2-ol	aqua (marine					140,9 mg/L	
67-63-0	water)						
Propan-2-ol	sediment				552 mg/kg		
67-63-0	(freshwater)						
Propan-2-ol	sediment				552 mg/kg		
67-63-0	(marine water)						
Propan-2-ol	soil				28 mg/kg		
67-63-0							
Propan-2-ol	aqua					140,9 mg/L	
67-63-0	(intermittent						
	releases)						
Propan-2-ol	STP					2251 mg/L	
67-63-0							
Propan-2-ol	oral					160 mg/kg	
67-63-0						food	

# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Acetone 67-64-1	Workers	Inhalation	Acute/short term exposure - local effects		2420 mg/m3	
Acetone 67-64-1	Workers	Dermal	Long term exposure - systemic effects		186 mg/kg bw/day	
Acetone 67-64-1	Workers	Inhalation	Long term exposure - systemic effects		1210 mg/m3	
Acetone 67-64-1	general population	Dermal	Long term exposure - systemic effects		62 mg/kg bw/day	
Acetone 67-64-1	general population	Inhalation	Long term exposure - systemic effects		200 mg/m3	
Acetone 67-64-1	general population	oral	Long term exposure - systemic effects		62 mg/kg bw/day	
Propan-2-ol 67-63-0	Workers	Dermal	Long term exposure - systemic effects		888 mg/kg bw/day	
Propan-2-ol 67-63-0	Workers	Inhalation	Long term exposure - systemic effects		500 mg/m3	
Propan-2-ol 67-63-0	general population	Dermal	Long term exposure - systemic effects		319 mg/kg bw/day	
Propan-2-ol 67-63-0	general population	Inhalation	Long term exposure - systemic effects		89 mg/m3	
Propan-2-ol 67-63-0	general population	oral	Long term exposure - systemic effects		26 mg/kg bw/day	

# **Biological Exposure Indices:**

None

# 8.2. 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 > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 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 (NBR;  $\geq$ = 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**

#### 9.1. Information on basic physical and chemical properties

Appearance Aerosol

yellow

Odor pungent

Odour threshold No data available / Not applicable

pH Not applicable Initial boiling point  $56 \,^{\circ}\mathrm{C} \, (132.8 \,^{\circ}\mathrm{F})$  Flash point Not applicable

Decomposition temperature No data available / Not applicable

Vapour pressure 230 mm hg

(20 °C (68 °F))

Density 0,8 g/cm<sup>3</sup>

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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 No data available / Not applicable Melting point 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 No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density No data available / Not applicable Oxidising properties

### 9.2. Other information

No data available / Not applicable

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Reaction with strong acids. Reacts with strong oxidants.

# 10.2. Chemical stability

Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Stable

# 10.5. Incompatible materials

See section reactivity

#### 10.6. Hazardous decomposition products

Irritating organic vapours.

V002.8

MSDS-No.: 179503

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

# General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

# STOT-single exposure:

May cause drowsiness or dizziness.

#### 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.

Prolonged or repeated contact may cause skin irritation.

#### Eye irritation:

Causes serious eye irritation.

#### Sensitizing:

May cause allergic reaction.

# Acute oral 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		rat	
Propan-2-ol 67-63-0	LD50	5.338 mg/kg	oral		rat	

# Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone	LC50	76 mg/l		4 h	rat	
67-64-1						
Propan-2-ol	LC50	72,6 mg/l		4 h	rat	
67-63-0		_				

# Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone 67-64-1	LD50	> 15.688 mg/kg	dermal		rabbit	
Propan-2-ol 67-63-0	LD50	12.870 mg/kg	dermal		rabbit	

### Skin corrosion/irritation:

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

# Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Acetone	irritating		rabbit	OECD Guideline 405 (Acute
67-64-1				Eye Irritation / Corrosion)
Propan-2-ol	moderately irritating		rabbit	OECD Guideline 405 (Acute
67-63-0				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	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Benzothiazole-2-thiol 149-30-4	sensitising	Guinea pig maximisat ion 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)
Propane 74-98-6	negative with metabolic activation	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
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	Micronucleus assay

# 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	
Acetone 67-64-1	LOAEL=5000 ppm	oral: drinking water	13 weeks	rat	
Propan-2-ol 67-63-0	NOAEL=1500	inhalation	13 weeks6 hours/day, 5 days/week	mouse	
Propan-2-ol 67-63-0	LOAEL=5000	inhalation	13 weeks6 hours/day, 5 days/week	mouse	
Benzothiazole-2-thiol 149-30-4	LOAEL=750 mg/kg	oral: gavage	13 weeks5 days/week	rat	
Benzothiazole-2-thiol 149-30-4	NOAEL=375 mg/kg	oral: gavage	13 weeks5 days/week	rat	

# **SECTION 12: Ecological information**

#### **General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

# 12.1. Toxicity

# **Ecotoxicity:**

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

Harmful to aquatic life with long lasting effects.

67-64-1  Acetone 67-64-1  EC50 6.098,4 mg/l Daphnia 48 h Daphnia magna O 20  I Propan-2-ol LC50 9.640 mg/l Fish 96 h Pimephales promelas O	OECD Guideline 203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetone 67-64-1	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetone 67-64-1	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
67-64-1 20	202 (Daphnia sp. Acute Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol LC50 9.640 mg/l Fish 96 h Pimephales promelas O	Acute Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol LC50 9.640 mg/l Fish 96 h Pimephales promelas O	Immobilisation Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
Propan-2-ol LC50 9.640 mg/l Fish 96 h Pimephales promelas O	Test) OECD Guideline 203 (Fish, Acute Toxicity Test)
	OECD Guideline 203 (Fish, Acute Toxicity Test)
	203 (Fish, Acute Toxicity Test)
67-63-0	Toxicity Test)
	OECD Guideline
	202 (Daphnia sp.
	Acute
	Immobilisation
	Test)
	OECD Guideline
	201 (Alga, Growth
	Inhibition Test)
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	OECD Guideline 201 (Alga, Growth
	Inhibition Test)
Propan-2-ol NOEC 30 mg/l chronic 21 d Daphnia magna	OECD 211
	(Daphnia magna,
- · · · · · · · · · · · · · · · · · · ·	Reproduction Test)
	OECD Guideline
	203 (Fish, Acute
	Toxicity Test)
, , , , , , , , , , , , , , , , , , , ,	OECD Guideline
149-30-4	202 (Daphnia sp.
	Acute
	Immobilisation
	Test)
5 5 1 1 1 1 1 1	OECD Guideline
	201 (Alga, Growth Inhibition Test)
Benzothiazole-2-thiol NOEC 0,34 mg/l chronic 21 d Daphnia magna	OECD 211
	(Daphnia magna,
	Reproduction Test)

# 12.2. Persistence and degradability

# Persistence and Biodegradability:

No data available.

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" BiodegradabilityClosed Bottle Test)
Propan-2-ol 67-63-0	readily biodegradable	aerobic	70 - 84 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Benzothiazole-2-thiol 149-30-4		aerobic	2,5 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

# Mobility:

The product evaporates readily.

#### Bioaccumulative potential:

No data available.

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 (noctanol / water), Shake Flask Method)
Benzothiazole-2-thiol 149-30-4	2,34 - 2,5					

# 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Acetone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
67-64-1	Bioaccumulative (vPvB) criteria.
Propane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
74-98-6	Bioaccumulative (vPvB) criteria.
Propan-2-ol	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
67-63-0	Bioaccumulative (vPvB) criteria.

# 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. 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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

V002.8

# **SECTION 14: Transport information**

#### 14.1. **UN** number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

#### 14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS
IMDG	AEROSOLS
IATA	Aerosols, flammable

#### 14.3. Transport hazard class(es)

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

#### 14.4. Packaging group

ADR RID ADN **IMDG** IATA

#### 14.5. **Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

#### 14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (D)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content (1999/13/EC) 99 %

### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

V002.8

MSDS-No.: 179503

# **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:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

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.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.