



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

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LOCTITE 7471 150ml EN

sds no. : 179503
V002.2

Revision: 15.10.2010
printing date: 09.06.2011

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:

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

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):

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.

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. | EINECS 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. | EINECS REACH-Reg No. | content | Classification |
|-----------------------------------|-------------------------|-----------|---|
| Acetone 67-64-1 | 200-662-2 | 60 - 80 % | 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 - 20 % | Xi - Irritant; R36 F - Highly flammable; R11 R67 |
| Benzothiazole-2-thiol 149-30-4 | 205-736-8 | 0,1 - 1 % | R43 N - Dangerous for the environment; R50, 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:**

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

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid skin and eye contact.
Ensure adequate ventilation.
See advice in chapter 8

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.

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

8. Exposure controls/personal protection

Control parameters:

Valid for
Great Britain
Basis
UK EH40 WELs

| Ingredient | ppm | mg/m3 | 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 |
| PROPANE 74-98-6 | | | | Included in the regulation but with no data values. See regulation for further details | 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 > 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 | aerosol |
| Odor | yellow Pungent |
| pH | not applicable |
| Initial boiling point | Not applicable |
| Flash point | Not applicable |
| Decomposition temperature | No data available. |
| Vapour pressure (20 °C (68 °F)) | 230 mm hg |
| Density () | 0,8 g/cm3 |

| | |
|--|--------------------|
| Bulk density | No data available. |
| Viscosity | No data available. |
| Viscosity (kinematic) | No data available. |
| Explosive properties | No data available. |
| Solubility (qualitative) (Solvent: Water) | Miscible |
| Solubility (qualitative) (Solvent: Acetone) | Soluble |
| 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:

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.

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 | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| | sensitising | Guinea pig maximisation 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 forward mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | bacterial forward mutation assay | 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 | |

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 | | | | | |

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

140603

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

15. Regulatory information

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

VOC content 99 %
(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:

- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R53 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.

- H220Extremely flammable gas.
- H225Highly flammable liquid and vapour.
- H317May cause an allergic skin reaction.
- H319Causes serious eye irritation.
- H336May cause drowsiness or dizziness.
- H400Very toxic to aquatic life.
- H410Very 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.