



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

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Loctite 7649

sds no. : 153557
V002.2
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Loctite 7649

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

Intended use:
activator

1.3. Details of the supplier of the safety data sheet

Henkel Limited
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933
Fax-no.: +44 1606 863762

ua-productsafety.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 (DPD):

F - Highly flammable
R11 Highly flammable.
Xi - Irritant
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

2.2. Label elements

Label elements (DPD):

F - Highly flammable

Xi - Irritant

**Risk phrases:**

R11 Highly flammable.
 R36 Irritating to eyes.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.
 S23 Do not breathe vapour.
 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.

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients**General chemical description:**

Solvent based activator.

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 | >= 50- <= 100 % | Flammable liquids 2 H225 Specific target organ toxicity - single exposure 3 H336 Serious eye irritation 2 H319 |

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 |

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**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

EYE: Irritation, conjunctivitis.

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

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.

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.

6.4. Reference to other sections

See advice in chapter 8

SECTION 7: Handling and storage

7.1. 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.

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)

activator

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Valid for
Great Britain

| Ingredient | ppm | mg/m ³ | Type | Category | Remarks |
|--------------------|-------|-------------------|-----------------------------------|------------|----------|
| ACETONE 67-64-1 | 500 | 1.210 | Time Weighted Average (TWA): | | EH40 WEL |
| 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): | Indicative | ECTLV |

8.2. Exposure controls:**Respiratory protection:**

Use only in well-ventilated areas.
Use filter A if vapours/aerosols occur which may be inhaled.

Hand protection:

The use of chemical resistant gloves such as Neoprene or Natural Rubber are recommended
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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|------------------------------------|------------------------------------|
| Appearance | liquid liquid green |
| Odor | Acetone |
| pH | not applicable |
| Initial boiling point | 56 °C (132.8 °F) |
| Flash point | -20 °C (-4 °F)Estimated |
| Decomposition temperature | No data available / Not applicable |
| Vapour pressure (20 °C (68 °F)) | 172 mm hg |
| Density () | 0,7936 g/cm3 |
| 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) (Solvent: Water) | Miscible |
| Solubility (qualitative) (Solvent: Water) | Miscible |
| 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 |

9.2. Other information

| | |
|----------------------|-----------------|
| Ignition temperature | 465 °C (869 °F) |
|----------------------|-----------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.6. Hazardous decomposition products

Irritating organic vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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 | |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---------------------------------|------------|------------------|---------|--|
| Acetone 67-64-1 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

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) |

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 | |

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:

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.

12.1. 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) |

12.2. 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) |
|--------------------|-----------------------|---------|-----------|--|

12.3. Bioaccumulative potential / 12.4. Mobility in soil

| Hazardous components CAS-No. | LogKow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|---------------------------------|--------|----------------------------------|------------------|---------|-------------|--------|
| Acetone 67-64-1 | 0,24 | | | | | |

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

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

Class: 3
Packaging group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)
Tunnelcode: (D/E)

Railroad transport RID:

Class: 3
Packaging group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)
Tunnelcode: -

Inland water transport ADN:

Class: 3
Packaging group: II
Classification code: F1
Hazard ident. number: 33
UN no.: 1090
Label: 3
Technical name: ACETONE (solution)

Marine transport IMDG:

Class: 3
Packaging group: II
UN no.: 1090
Label: 3
EmS: F-E ,S-D
Seawater pollutant: -

Proper shipping name: ACETONE (solution)

Air transport IATA:

Class: 3
Packaging group: II
Packaging instructions (passenger) 353
Packaging instructions (cargo) 364
UN no.: 1090
Label: 3
Proper shipping name: Acetone (solution)

SECTION 15: Regulatory information

15.1. 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.
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

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.

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