



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

Page 1 of 17

LOCTITE SF 7471

SDS No. : 153556
V004.0

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

1.1. Product identifier

LOCTITE SF 7471

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 Ltd
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000

Fax-no.: +44 1442 278071

ua-productsafety.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 liquids Category 2

H225 Highly flammable liquid and vapor.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

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):

Hazard pictogram:**Contains**

acetone

Diethylol-p-toluidine
benzothiazole-2-thiol

Signal word:**Danger****Hazard statement:**

H225 Highly flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement:

For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of contents/container in accordance with national regulation.

**Precautionary statement:
Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapors.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.

**Precautionary statement:
Response**

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

**Precautionary statement:
Storage**

P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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 | 50- 100 % | Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 |
| 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 |
| Diethylol-p-toluidine 3077-12-1 | 221-359-1 01-2120791684-40 | 1- < 3 % | Skin Sens. 1 H317 Acute Tox. 4; Oral H302 Eye Dam. 1 H318 Aquatic Chronic 3 H412 |
| benzothiazole-2-thiol 149-30-4 | 205-736-8 01-2119485805-26 | 0,1- < 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

EYE: Irritation, conjunctivitis.

Vapors may cause drowsiness and dizziness.

SKIN: Rash, Urticaria.

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), carbon dioxide (CO₂) and nitrogen oxides (NO_x) can be released.

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.

Wear protective equipment.

6.2. Environmental precautions

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

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.

Vapours should be extracted to avoid inhalation.

Keep away from sources of ignition - no smoking.

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

Refer to Technical Data Sheet

7.3. Specific end use(s)

activator

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | 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] | 500 | 1.210 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Acetone 67-64-1 [ACETONE] | 1.500 | 3.620 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Propan-2-ol 67-63-0 [PROPAN-2-OL] | 400 | 999 | Time Weighted Average (TWA): | | EH40 WEL |
| Propan-2-ol 67-63-0 [PROPAN-2-OL] | 500 | 1.250 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Acetone 67-64-1 [ACETONE] | 500 | 1.210 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Acetone 67-64-1 [ACETONE] | 500 | 1.210 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 200 | | Time Weighted Average (TWA): | | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 400 | | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|------------------------------------|--------------------|----------------|-----|-----------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| acetone 67-64-1 | aqua (intermittent releases) | | 21 mg/l | | | | |
| acetone 67-64-1 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| acetone 67-64-1 | sediment (freshwater) | | | | 30,4 mg/kg | | |
| acetone 67-64-1 | sediment (marine water) | | | | 3,04 mg/kg | | |
| acetone 67-64-1 | Soil | | | | 29,5 mg/kg | | |
| acetone 67-64-1 | aqua (freshwater) | | 10,6 mg/l | | | | |
| acetone 67-64-1 | aqua (marine water) | | 1,06 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (freshwater) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (marine water) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sediment (freshwater) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | sediment (marine water) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | Soil | | | | 28 mg/kg | | |
| Propan-2-ol 67-63-0 | aqua (intermittent releases) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sewage treatment plant (STP) | | 2251 mg/l | | | | |
| Propan-2-ol 67-63-0 | oral | | | | 160 mg/kg | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | aqua (freshwater) | | 0,026 mg/l | | | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | aqua (intermittent releases) | | 0,26 mg/l | | | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | aqua (marine water) | | 0,003 mg/l | | | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | sediment (freshwater) | | | | 0,121 mg/kg | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | sediment (marine water) | | | | 0,012 mg/kg | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | Sewage treatment plant | | 10 mg/l | | | | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | Soil | | | | 0,009 mg/kg | | |
| Benzothiazole-2-thiol 149-30-4 | aqua (freshwater) | | 0,0041 mg/l | | | | |
| Benzothiazole-2-thiol 149-30-4 | aqua (marine water) | | 0 mg/l | | | | |
| Benzothiazole-2-thiol 149-30-4 | aqua (intermittent releases) | | 0,005 mg/l | | | | |
| Benzothiazole-2-thiol 149-30-4 | sediment (freshwater) | | | | 0,147 mg/kg | | |
| Benzothiazole-2-thiol 149-30-4 | sediment (marine water) | | | | 0,0147 mg/kg | | |
| Benzothiazole-2-thiol 149-30-4 | Soil | | | | 0,027 mg/kg | | |
| Benzothiazole-2-thiol 149-30-4 | sewage treatment plant (STP) | | 0,3 mg/l | | | | |

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/m ³ | |
| acetone 67-64-1 | Workers | dermal | Long term exposure - systemic effects | | 186 mg/kg | |
| acetone 67-64-1 | Workers | Inhalation | Long term exposure - systemic effects | | 1210 mg/m ³ | |
| acetone 67-64-1 | General population | dermal | Long term exposure - systemic effects | | 62 mg/kg | |
| acetone 67-64-1 | General population | Inhalation | Long term exposure - systemic effects | | 200 mg/m ³ | |
| acetone 67-64-1 | General population | oral | Long term exposure - systemic effects | | 62 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | dermal | Long term exposure - systemic effects | | 888 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | inhalation | Long term exposure - systemic effects | | 500 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | dermal | Long term exposure - systemic effects | | 319 mg/kg | |
| Propan-2-ol 67-63-0 | General population | inhalation | Long term exposure - systemic effects | | 89 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | oral | Long term exposure - systemic effects | | 26 mg/kg | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | Workers | inhalation | Long term exposure - systemic effects | | 3,29 mg/m ³ | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | Workers | dermal | Long term exposure - systemic effects | | 0,47 mg/kg | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | General population | inhalation | Long term exposure - systemic effects | | 0,58 mg/m ³ | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | General population | dermal | Long term exposure - systemic effects | | 0,17 mg/kg | |
| 2,2'-[(4-Methylphenyl)imino]bisethanol 3077-12-1 | General population | oral | Long term exposure - systemic effects | | 0,16 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | Workers | inhalation | Acute/short term exposure - systemic effects | | 70,4 mg/m ³ | |
| Benzothiazole-2-thiol 149-30-4 | Workers | inhalation | Long term exposure - systemic effects | | 8,8 mg/m ³ | |
| Benzothiazole-2-thiol 149-30-4 | Workers | dermal | Long term exposure - systemic effects | | 5 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | Workers | dermal | Acute/short term exposure - systemic effects | | 40 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | General population | oral | Acute/short term exposure - systemic effects | | 10 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | General population | oral | Long term exposure - systemic effects | | 1,25 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | General population | inhalation | Acute/short term exposure - systemic effects | | 17,6 mg/m ³ | |
| Benzothiazole-2-thiol 149-30-4 | General population | inhalation | Long term exposure - | | 2,2 mg/m ³ | |

| | | | | | | |
|-----------------------------------|-----------------------|--------|--|--|-----------|--|
| | | | systemic effects | | | |
| Benzothiazole-2-thiol 149-30-4 | General population | dermal | Acute/short term exposure - systemic effects | | 20 mg/kg | |
| Benzothiazole-2-thiol 149-30-4 | General population | dermal | Long term exposure - systemic effects | | 2,5 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

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; >= 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.

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

liquid

Amber to yellowish

Odor

Acetone

Odour threshold

No data available / Not applicable

pH

Not applicable

Melting point

No data available / Not applicable

Solidification temperature

No data available / Not applicable

Initial boiling point

56 °C (132.8 °F)

| | |
|--|------------------------------------|
| Flash point | -8 °C (17.6 °F)Estimated |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | 172 mm hg |
| Relative vapour density: | No data available / Not applicable |
| Density | 0,795 g/cm ³ |
| () | |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | Miscible |
| (Solvent: Water) | |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | 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 |
| Oxidising properties | No data available / Not applicable |

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.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------------|---------------|-------------|---------|---|
| acetone 67-64-1 | LD50 | 5.800 mg/kg | rat | not specified |
| Propan-2-ol 67-63-0 | LD50 | 5.840 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Diethylol-p-toluidine 3077-12-1 | LD50 | 959 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| benzothiazole-2-thiol 149-30-4 | LD50 | 2.830 mg/kg | rat | not specified |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------------|---------------|----------------|---------|--|
| acetone 67-64-1 | LD50 | > 15.688 mg/kg | rabbit | Draize Test |
| Propan-2-ol 67-63-0 | LD50 | 12.870 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Diethylol-p-toluidine 3077-12-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| benzothiazole-2-thiol 149-30-4 | LD50 | > 7.940 mg/kg | rabbit | not specified |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|-----------------------------------|---------------|--------------|-----------------|------------------|---------|---------------|
| acetone 67-64-1 | LC50 | 76 mg/l | vapour | 4 h | rat | not specified |
| Propan-2-ol 67-63-0 | LC50 | 72,6 mg/l | | 4 h | rat | not specified |
| benzothiazole-2-thiol 149-30-4 | LC50 | > 1.270 mg/l | dust/mist | 4 h | rat | not specified |

Skin corrosion/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|------------------------|------------------|------------|--|
| acetone 67-64-1 | not irritating | | guinea pig | not specified |
| Propan-2-ol 67-63-0 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Diethylol-p-toluidine 3077-12-1 | not irritating | 24 h | rabbit | not specified |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------------|---|------------------|---------|--|
| acetone 67-64-1 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Propan-2-ol 67-63-0 | Category II | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diethylol-p-toluidine 3077-12-1 | Category I (irreversible effects on the eye) | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|------------------------------------|-----------------|------------------------------------|------------|---|
| acetone 67-64-1 | not sensitising | Guinea pig maximisation test | guinea pig | not specified |
| Propan-2-ol 67-63-0 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Diethylol-p-toluidine 3077-12-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 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 maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances 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) |
| acetone 67-64-1 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| acetone 67-64-1 | negative | mammalian cell gene mutation assay | without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Propan-2-ol 67-63-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---------------------------------|------------------|-------------------------|---|---------|-------------|--|
| acetone 67-64-1 | not carcinogenic | dermal | 424 d 3 times per week | mouse | female | not specified |
| Propan-2-ol 67-63-0 | | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---------------------------------|---|----------------------|----------------------------|---------|--|
| Propan-2-ol 67-63-0 | NOAEL P 853 mg/kg | One generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One-Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|-----------------------------------|-----------------|----------------------------|--|---------|--|
| acetone 67-64-1 | NOAEL 900 mg/kg | oral: drinking water | 13 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Propan-2-ol 67-63-0 | | inhalation: vapour | at least 104 w 6 h/d, 5 d/w | rat | OECD Guideline 451 (Carcinogenicity Studies) |
| benzothiazole-2-thiol 149-30-4 | NOAEL 375 mg/kg | oral: gavage | 13 weeks 5 days/week | rat | not specified |

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|-----------------------|---------------|---------------------|--|
| acetone 67-64-1 | LC50 | 8.120 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Propan-2-ol 67-63-0 | LC50 | > 9.640 - 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Diethylol-p-toluidine 3077-12-1 | LC50 | > 100 mg/l | 96 h | Cyprinus carpio | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| benzothiazole-2-thiol 149-30-4 | LC50 | 11 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| benzothiazole-2-thiol 149-30-4 | NOEC | 0,041 mg/l | 89 d | Oncorhynchus mykiss | other guideline: |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|------------|---------------|---------------|--|
| acetone 67-64-1 | EC50 | 8.800 mg/l | 48 h | Daphnia pulex | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Diethylol-p-toluidine 3077-12-1 | EC50 | 48 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| benzothiazole-2-thiol 149-30-4 | EC50 | 0,71 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|-----------------------------------|---------------|------------|---------------|---------------|---|
| acetone 67-64-1 | NOEC | 2.212 mg/l | 28 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Propan-2-ol 67-63-0 | NOEC | 30 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| benzothiazole-2-thiol 149-30-4 | NOEC | 0,08 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|--------------|---------------|--|--|
| acetone 67-64-1 | NOEC | 530 mg/l | 8 d | Microcystis aeruginosa | DIN 38412-09 |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | NOEC | 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Diethylol-p-toluidine 3077-12-1 | EC50 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Diethylol-p-toluidine 3077-12-1 | NOEC | 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| benzothiazole-2-thiol 149-30-4 | EC50 | 0,5 mg/l | 72 h | Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| benzothiazole-2-thiol 149-30-4 | NOEC | 0,066 mg/l | 72 h | Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|------------------------------------|---------------|--------------|---------------|--|--|
| acetone 67-64-1 | EC10 | 1.000 mg/l | 30 min | Pseudomonas putida | DIN 38412, part 27 (Bacterial oxygen consumption test) |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Diethylol-p-toluidine 3077-12-1 | EC50 | > 1.000 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| benzothiazole-2-thiol 149-30-4 | EC0 | > 1.000 mg/l | 18 h | | not specified |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|------------------------------------|----------------------------|-----------|---------------|------------------|---|
| acetone 67-64-1 | readily biodegradable | aerobic | 81 - 92 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| Propan-2-ol 67-63-0 | readily biodegradable | aerobic | 70 - 84 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| Diethylol-p-toluidine 3077-12-1 | not readily biodegradable. | aerobic | 1,5 % | 29 d | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) |
| benzothiazole-2-thiol 149-30-4 | | aerobic | 2,5 % | 14 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

The product evaporates readily.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|------------------------------------|------------|-------------|--|
| acetone 67-64-1 | -0,24 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Propan-2-ol 67-63-0 | 0,05 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Diethylol-p-toluidine 3077-12-1 | 2 | 35 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| benzothiazole-2-thiol 149-30-4 | 2,34 - 2,5 | | not specified |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|------------------------------------|---|
| acetone 67-64-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propan-2-ol 67-63-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Diethylol-p-toluidine 3077-12-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| benzothiazole-2-thiol 149-30-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

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.

SECTION 14: Transport information

14.1. UN number

| | |
|------|------|
| ADR | 1993 |
| RID | 1993 |
| ADN | 1993 |
| IMDG | 1993 |
| IATA | 1993 |

14.2. UN proper shipping name

| | |
|------|--|
| ADR | FLAMMABLE LIQUID, N.O.S. (Acetone,Isopropanol) |
| RID | FLAMMABLE LIQUID, N.O.S. (Acetone,Isopropanol) |
| ADN | FLAMMABLE LIQUID, N.O.S. (Acetone,Isopropanol) |
| IMDG | FLAMMABLE LIQUID, N.O.S. (Acetone,Isopropanol) |
| IATA | Flammable liquid, n.o.s. (Acetone,Isopropanol) |

14.3. Transport hazard class(es)

| | |
|------|---|
| ADR | 3 |
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |

14.4. Packing group

| | |
|------|----|
| ADR | II |
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

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 | Special provision 640D Tunnelcode: (D/E) |
| RID | Special provision 640D |
| ADN | Special provision 640D |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Transport in bulk according to Annex II of Marpol 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 (2010/75/EC) | 99 % |
|-----------------------------|------|

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see <https://ec.europa.eu/home-affairs/what-we->

do/policies/counter-terrorism/protection/implementation-explosives-precursors-legislation_en.

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

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:

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

Further information:

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