



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

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LOCTITE LB 8192 known as Loctite 8192

SDS No. : 283259

V004.0

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Replaces version from: 22.03.2018

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

#### 1.1. Product identifier

LOCTITE LB 8192 known as Loctite 8192

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

Intended use:

Lubricant

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

Henkel Ltd

Adhesives

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 aerosols

Category 1

H222 Extremely flammable aerosol.

H229 Pressurized 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

#### 2.2. Label elements

##### Label elements (CLP):

Hazard pictogram:



Contains

Propan-2-ol

**Signal word:** Danger

**Hazard statement:** H222 Extremely flammable aerosol.  
H229 Pressurized container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precautionary statement:** P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P211 Do not spray on an open flame or other ignition source.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P102 Keep out of reach of children.  
"\*\*\*\*" \*\*\*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:** P261 Avoid breathing spray.  
**Prevention**

**Precautionary statement:** P337+P313 If eye irritation persists: Get medical advice/attention.  
**Response**

### 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:**  
Lubricant

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

| Hazardous components<br>CAS-No.            | EC Number<br>REACH-RegNo.     | content     | Classification                                                    |
|--------------------------------------------|-------------------------------|-------------|-------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0                     | 200-661-7<br>01-2119457558-25 | 25- < 50 %  | Flam. Liq. 2<br>H225<br>Eye Irrit. 2<br>H319<br>STOT SE 3<br>H336 |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | 203-448-7<br>01-2119474691-32 | 25- < 50 %  | Flam. Gas 1<br>H220<br>Press. Gas<br>H280                         |
| Propane<br>74-98-6                         | 200-827-9<br>01-2119486944-21 | 10- < 25 %  | Flam. Gas 1<br>H220<br>Press. Gas<br>H280                         |
| Isobutane<br>75-28-5                       | 200-857-2<br>01-2119485395-27 | 2,5- < 10 % | Flam. Gas 1<br>H220<br>Press. Gas<br>H280                         |

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.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

Vapors may cause drowsiness and dizziness.

EYE: Irritation, conjunctivitis.

Prolonged or repeated contact may cause skin irritation.

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

See section: Description of first aid measures

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

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

Water spray jet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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.

Avoid contact with skin and eyes.

### 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

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**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling**

Keep away from sources of ignition - no smoking.  
Vapours should be extracted to avoid inhalation.  
Use only in well-ventilated areas.  
Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

Good industrial hygiene practices should be observed.  
Do not eat, drink or smoke while working.  
Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, dry place.  
Do not store near sources of heat or ignition, or reactive materials.  
Refer to Technical Data Sheet

**7.3. Specific end use(s)**

Lubricant

## 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 |
|-----------------------------------------|-----|-------------------|-----------------------------------|---------------------------------------------|-----------------|
| Propan-2-ol<br>67-63-0<br>[PROPAN-2-OL] | 500 | 1.250             | Short Term Exposure Limit (STEL): |                                             | EH40 WEL        |
| Propan-2-ol<br>67-63-0<br>[PROPAN-2-OL] | 400 | 999               | Time Weighted Average (TWA):      |                                             | EH40 WEL        |
| Butane<br>106-97-8<br>[BUTANE]          | 750 | 1.810             | Short Term Exposure Limit (STEL): |                                             | EH40 WEL        |
| Butane<br>106-97-8<br>[BUTANE]          | 600 | 1.450             | Time Weighted Average (TWA):      |                                             | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]              | ppm   | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category/ Remarks | Regulatory list |
|-----------------------------------------------|-------|-------------------|-----------------------------------|---------------------------------------------|-----------------|
| Propan-2-ol<br>67-63-0<br>[ISOPROPYL ALCOHOL] | 200   |                   | Time Weighted Average (TWA):      |                                             | IR_OEL          |
| Propan-2-ol<br>67-63-0<br>[ISOPROPYL ALCOHOL] |       |                   | Skin designation:                 | Can be absorbed through the skin.           | IR_OEL          |
| Propan-2-ol<br>67-63-0<br>[ISOPROPYL ALCOHOL] | 400   |                   | Short Term Exposure Limit (STEL): | 15 minutes                                  | IR_OEL          |
| Butane<br>106-97-8<br>[BUTANE]                | 1.000 |                   | Time Weighted Average (TWA):      |                                             | IR_OEL          |
| Isobutane<br>75-28-5<br>[ISOBUTANE]           | 1.000 |                   | Short Term Exposure Limit (STEL): | 15 minutes                                  | IR_OEL          |

**Predicted No-Effect Concentration (PNEC):**

| Name on list           | Environmental<br>Compartment       | Exposure<br>period | Value      |     |           |        | Remarks |
|------------------------|------------------------------------|--------------------|------------|-----|-----------|--------|---------|
|                        |                                    |                    | mg/l       | ppm | mg/kg     | others |         |
| Propan-2-ol<br>67-63-0 | aqua<br>(freshwater)               |                    | 140,9 mg/l |     |           |        |         |
| Propan-2-ol<br>67-63-0 | aqua (marine<br>water)             |                    | 140,9 mg/l |     |           |        |         |
| Propan-2-ol<br>67-63-0 | sediment<br>(freshwater)           |                    |            |     | 552 mg/kg |        |         |
| Propan-2-ol<br>67-63-0 | sediment<br>(marine water)         |                    |            |     | 552 mg/kg |        |         |
| Propan-2-ol<br>67-63-0 | Soil                               |                    |            |     | 28 mg/kg  |        |         |
| Propan-2-ol<br>67-63-0 | aqua<br>(intermittent<br>releases) |                    | 140,9 mg/l |     |           |        |         |
| Propan-2-ol<br>67-63-0 | sewage<br>treatment plant<br>(STP) |                    | 2251 mg/l  |     |           |        |         |
| Propan-2-ol<br>67-63-0 | oral                               |                    |            |     | 160 mg/kg |        |         |

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

| Name on list           | Application<br>Area   | Route of<br>Exposure | Health Effect                               | Exposure<br>Time | Value     | Remarks |
|------------------------|-----------------------|----------------------|---------------------------------------------|------------------|-----------|---------|
| Propan-2-ol<br>67-63-0 | Workers               | dermal               | Long term<br>exposure -<br>systemic effects |                  | 888 mg/kg |         |
| Propan-2-ol<br>67-63-0 | Workers               | inhalation           | Long term<br>exposure -<br>systemic effects |                  | 500 mg/m3 |         |
| Propan-2-ol<br>67-63-0 | General<br>population | dermal               | Long term<br>exposure -<br>systemic effects |                  | 319 mg/kg |         |
| Propan-2-ol<br>67-63-0 | General<br>population | inhalation           | Long term<br>exposure -<br>systemic effects |                  | 89 mg/m3  |         |
| Propan-2-ol<br>67-63-0 | General<br>population | oral                 | Long term<br>exposure -<br>systemic effects |                  | 26 mg/kg  |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:  
Ensure good ventilation/extraction.

Respiratory protection:  
Do not inhale vapors and fumes.  
Use only in well-ventilated areas.  
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area  
Use filter A-P2 if vapours/aerosols occur which may be inhaled.  
Filtertype: AX

**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;  $\geq 0.4$  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:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**Skin protection:**

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<br>aerosol<br>white         |
| Odor                                         | characteristic                     |
| Odour threshold                              | No data available / Not applicable |
| pH                                           | Not available.                     |
| Melting point                                | No data available / Not applicable |
| Solidification temperature                   | No data available / Not applicable |
| Initial boiling point                        | -44,5 °C (-48.1 °F)                |
| Flash point                                  | -97 °C (-142.6 °F)                 |
| Evaporation rate                             | No data available / Not applicable |
| Flammability                                 | No data available / Not applicable |
| Explosive limits                             |                                    |
| lower                                        | 1,5 %(V)                           |
| upper                                        | 12 %(V)                            |
| Vapour pressure<br>(20 °C (68 °F))           | 8300 hPa                           |
| Relative vapour density:                     | No data available / Not applicable |
| Density<br>(20 °C (68 °F))                   | 0,605 g/cm <sup>3</sup>            |
| Bulk density                                 | No data available / Not applicable |
| Solubility                                   | No data available / Not applicable |
| Solubility (qualitative)<br>(Solvent: Water) | Not miscible                       |
| 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**

Ignition temperature 365 °C (689 °F)

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None known

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

None if used for intended purpose.

**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<br>CAS-No. | Value<br>type | Value       | Species | Method                                                            |
|---------------------------------|---------------|-------------|---------|-------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0          | LD50          | 5.840 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value        | Species | Method                                     |
|---------------------------------|---------------|--------------|---------|--------------------------------------------|
| Propan-2-ol<br>67-63-0          | LD50          | 12.870 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

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

| Hazardous substances<br>CAS-No.               | Value<br>type | Value        | Test atmosphere | Exposure<br>time | Species | Method        |
|-----------------------------------------------|---------------|--------------|-----------------|------------------|---------|---------------|
| Propan-2-ol<br>67-63-0                        | LC50          | 72,6 mg/l    |                 | 4 h              | rat     | not specified |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | LC50          | 274200 ppm   | gas             | 4 h              | rat     | not specified |
| Propane<br>74-98-6                            | LC50          | > 800000 ppm | gas             | 15 min           | rat     | not specified |
| Isobutane<br>75-28-5                          | LC50          | 260200 ppm   | gas             | 4 h              | mouse   | not specified |

**Skin corrosion/irritation:**

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

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

**Serious eye damage/irritation:**

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

| Hazardous substances<br>CAS-No. | Result      | Exposure<br>time | Species | Method                                                                         |
|---------------------------------|-------------|------------------|---------|--------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0          | Category II |                  | 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<br>CAS-No. | Result          | Test type    | Species    | Method                                  |
|---------------------------------|-----------------|--------------|------------|-----------------------------------------|
| Propan-2-ol<br>67-63-0          | not sensitising | Buehler 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<br>CAS-No.               | Result   | Type of study/<br>Route of<br>administration           | Metabolic<br>activation/<br>Exposure time | Species                    | Method                                                                                            |
|-----------------------------------------------|----------|--------------------------------------------------------|-------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0                        | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                          |                            | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)              |
| Propan-2-ol<br>67-63-0                        | negative | mammalian cell<br>gene mutation assay                  | with and without                          |                            | equivalent or similar to OECD<br>Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test) |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                          |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                       |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                          |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                          |
| Propane<br>74-98-6                            | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                          |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                       |
| Propane<br>74-98-6                            | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                          |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                          |
| Isobutane<br>75-28-5                          | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                          |                            | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                       |
| Isobutane<br>75-28-5                          | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                          |                            | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                          |
| Propan-2-ol<br>67-63-0                        | negative | intraperitoneal                                        |                                           | mouse                      | equivalent or similar to OECD<br>Guideline 474 (Mammalian<br>Erythrocyte Micronucleus<br>Test)    |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | negative |                                                        |                                           | Drosophila<br>melanogaster | not specified                                                                                     |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | negative | inhalation: gas                                        |                                           | rat                        | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                |
| Propane<br>74-98-6                            | negative |                                                        |                                           | Drosophila<br>melanogaster | not specified                                                                                     |
| Propane<br>74-98-6                            | negative | inhalation: gas                                        |                                           | rat                        | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                |
| Isobutane<br>75-28-5                          | negative |                                                        |                                           | Drosophila<br>melanogaster | not specified                                                                                     |
| Isobutane<br>75-28-5                          | negative | inhalation: gas                                        |                                           | rat                        | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No. | Result | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method                                             |
|---------------------------------|--------|-------------------------|-------------------------------------------------|---------|-------------|----------------------------------------------------|
| Propan-2-ol<br>67-63-0          |        | inhalation:<br>vapour   | 104 w<br>6 h/d, 5 d/w                           | rat     | male/female | OECD Guideline 451<br>(Carcinogenicity<br>Studies) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.               | Result / Value                            | Test type                  | Route of<br>application    | Species | Method                                                                                                                                  |
|-----------------------------------------------|-------------------------------------------|----------------------------|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0                        | NOAEL P 853 mg/kg                         | One<br>generation<br>study | oral:<br>drinking<br>water | rat     | equivalent or similar to<br>OECD Guideline 415 (One-<br>Generation Reproduction<br>Toxicity Study)                                      |
| Propan-2-ol<br>67-63-0                        | NOAEL P 500 mg/kg<br>NOAEL F1 1.000 mg/kg | Two<br>generation<br>study | oral: gavage               | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                      |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 | NOAEL P 21,4 mg/l<br>NOAEL F1 21,4 mg/l   | screening                  | inhalation:<br>gas         | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Propane<br>74-98-6                            | NOAEL P 21,6 mg/l<br>NOAEL F1 21,6 mg/l   | screening                  | inhalation:<br>gas         | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Isobutane<br>75-28-5                          | NOAEL P 21,4 mg/l<br>NOAEL F1 21,4 mg/l   | screening                  | inhalation:<br>gas         | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |

**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<br>CAS-No.               | Result / Value | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                                                                                  |
|-----------------------------------------------|----------------|-------------------------|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0                        |                | inhalation:<br>vapour   | at least 104 w<br>6 h/d, 5 d/w               | rat     | OECD Guideline 451<br>(Carcinogenicity Studies)                                                                                         |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8 |                | inhalation:<br>gas      | 28 d                                         | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Propane<br>74-98-6                            |                | inhalation:<br>gas      | 28 d<br>6 h/d, 7 d/w                         | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Isobutane<br>75-28-5                          |                | inhalation:<br>gas      | 28 d                                         | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |

**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<br>CAS-No.            | Value<br>type | Value                 | Exposure time | Species             | Method                                            |
|--------------------------------------------|---------------|-----------------------|---------------|---------------------|---------------------------------------------------|
| Propan-2-ol<br>67-63-0                     | LC50          | > 9.640 - 10.000 mg/l | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish,<br>Acute Toxicity Test) |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | LC50          | 27,98 mg/l            | 96 h          |                     | not specified                                     |

#### Toxicity (Daphnia):

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

| Hazardous substances<br>CAS-No.            | Value<br>type | Value      | Exposure time | Species | Method        |
|--------------------------------------------|---------------|------------|---------------|---------|---------------|
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | EC50          | 14,22 mg/l | 48 h          |         | not specified |

#### Chronic toxicity to aquatic invertebrates

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value   | Exposure time | Species       | Method                                         |
|---------------------------------|---------------|---------|---------------|---------------|------------------------------------------------|
| Propan-2-ol<br>67-63-0          | NOEC          | 30 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

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

| Hazardous substances<br>CAS-No.            | Value<br>type | Value        | Exposure time | Species                                                           | Method                                               |
|--------------------------------------------|---------------|--------------|---------------|-------------------------------------------------------------------|------------------------------------------------------|
| Propan-2-ol<br>67-63-0                     | EC50          | > 1.000 mg/l | 96 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Propan-2-ol<br>67-63-0                     | NOEC          | 1.000 mg/l   | 96 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | EC50          | 7,71 mg/l    | 96 h          |                                                                   | not specified                                        |
| Isobutane<br>75-28-5                       | EC50          | 7,71 mg/l    | 96 h          |                                                                   | not specified                                        |

#### Toxicity to microorganisms

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

| Hazardous substances<br>CAS-No. | Value<br>type | Value        | Exposure time | Species          | Method                                                                   |
|---------------------------------|---------------|--------------|---------------|------------------|--------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0          | EC50          | > 1.000 mg/l | 3 h           | activated sludge | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No. | Result                | Test type | Degradability | Exposure<br>time | Method                                                                             |
|---------------------------------|-----------------------|-----------|---------------|------------------|------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0          | readily biodegradable | aerobic   | 70 - 84 %     | 30 d             | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

The product evaporates readily.

The product is insoluble and floats on water.

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method                                                                             |
|---------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0          | 0,05   |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Isobutane<br>75-28-5            | 2,88   | 20 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.            | PBT/ vPvB                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Propan-2-ol<br>67-63-0                     | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propane<br>74-98-6                         | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isobutane<br>75-28-5                       | 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:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

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  | 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. Packing 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<br>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 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 98 %  
(2010/75/EC)

**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:

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapor.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**Further information:**

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