



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

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LOCTITE SF 7200 400ML

SDS No. : 173071  
V012.0

Revision: 23.10.2024

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

#### 1.1. Product identifier

LOCTITE SF 7200 400ML  
UFI: 10SY-GVSX-Y20R-QVFJ

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

Intended use:  
Solvent based cleaner

#### 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

SDSinfo.Adhesive@henkel.com  
For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.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. |            |
| Skin irritation                                  | Category 2 |
| H315 Causes skin irritation.                     |            |
| Serious eye irritation                           | Category 2 |
| H319 Causes serious eye irritation.              |            |

#### 2.2. Label elements

##### Label elements (CLP):

Hazard pictogram:



|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word:</b>                          | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Hazard statement:</b>                     | H222 Extremely flammable aerosol.<br>H229 Pressurized container: May burst if heated.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Precautionary statement:</b>              | P251 Do not pierce or burn, even after use.<br>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°C.<br>P211 Do not spray on an open flame or other ignition source.<br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P102 Keep out of reach of children.<br>"***" ***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.*** |
| <b>Precautionary statement:<br/>Response</b> | P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P337+P313 If eye irritation persists: Get medical advice/attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### 2.3. Other hazards

None if used properly.

**Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.                                                                    | Concentration | Classification                                                                                                                                                                    | Specific Conc. Limits, M-<br>factors and ATEs                                | Add.<br>Information |
|----------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------|
| Methylal<br>109-87-5<br>203-714-2<br>01-2119664781-31                                                                            | 50- < 75 %    | Flam. Liq. 2, H225                                                                                                                                                                |                                                                              |                     |
| Propane<br>74-98-6<br>200-827-9<br>01-2119486944-21                                                                              | 10- < 25 %    | Flam. Gas 1A, H220<br>Press. Gas H280                                                                                                                                             |                                                                              |                     |
| 1,3-Dioxolane<br>646-06-0<br>211-463-5<br>01-2119490744-29                                                                       | 2,5- < 10 %   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319                                                                                                                                          |                                                                              |                     |
| Propan-2-ol<br>67-63-0<br>200-661-7<br>01-2119457558-25                                                                          | 2,5- < 10 %   | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                                                                                       |                                                                              |                     |
| Ethanol<br>64-17-5<br>200-578-6<br>01-2119457610-43                                                                              | 2,5- < 10 %   | Eye Irrit. 2, H319<br>Flam. Liq. 2, H225                                                                                                                                          | Eye Irrit. 2; H319; C >= 50 %                                                |                     |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8<br>203-448-7<br>01-2119474691-32                                                      | 1- < 2,5 %    | Press. Gas H280<br>Flam. Gas 1A, H220                                                                                                                                             |                                                                              |                     |
| Butanone<br>78-93-3<br>201-159-0<br>01-2119457290-43                                                                             | 1- < 2,5 %    | STOT SE 3, H336<br>Eye Irrit. 2, H319<br>Flam. Liq. 2, H225                                                                                                                       |                                                                              | EU OEL              |
| 2-aminoethanol<br>141-43-5<br>205-483-3<br>01-2119486455-28                                                                      | 1- < 2,5 %    | Acute Tox. 4, Oral, H302<br>Acute Tox. 4, Dermal, H312<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Acute Tox. 4, Inhalation, H332<br>STOT SE 3, H335<br>Aquatic Chronic 3, H412 | STOT SE 3; H335; C >= 5 %<br>=====<br>inhalation:ATE = 1,5<br>mg/l;dust/mist | EU OEL              |
| Hydrocarbons, C10-C13, n-<br>alkanes, isoalkanes, cyclics, <<br>2% aromatic<br>-----<br>265-150-3, 918-481-9<br>01-2119457273-39 | 1- < 2,5 %    | Asp. Tox. 1, H304                                                                                                                                                                 |                                                                              |                     |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.

For full text of the H - statements and other abbreviations see section 16 "Other information".

The hazard classification of this product is based solely on the mixture present within the aerosol, excluding the propellant gases. The information provided in Section 3 is based on the combination of the mixture and propellant gases.

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

|           |                        |
|-----------|------------------------|
| 15 - 30 % | aliphatic hydrocarbons |
| < 5 %     | non-ionic surfactants  |

## 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

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

### 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:

water, carbon dioxide, foam, powder

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

High pressure waterjet

### 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 contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

Keep away from sources of ignition.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

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 section 8

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid skin and eye contact.  
See advice in section 8

#### Hygiene measures:

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

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

Ensure good ventilation/extraction.  
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)

Solvent based cleaner

**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 |
|------------------------------------------------------------|-------|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Dimethoxymethane<br>109-87-5<br>[DIMETHOXYMETHANE]         | 1.000 | 3.160             | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Dimethoxymethane<br>109-87-5<br>[DIMETHOXYMETHANE]         | 1.250 | 3.950             | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Propan-2-ol<br>67-63-0<br>[PROPAN-2-OL]                    | 400   | 999               | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Propan-2-ol<br>67-63-0<br>[PROPAN-2-OL]                    | 500   | 1.250             | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Ethanol<br>64-17-5<br>[ETHANOL]                            | 1.000 | 1.920             | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Butane<br>106-97-8<br>[Butane]                             | 600   | 1.450             | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Butane<br>106-97-8<br>[Butane]                             | 750   | 1.810             | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)] |       |                   | Skin designation:                 | Can be absorbed through the skin.            | EH40 WEL        |
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)] | 200   | 600               | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| Butanone<br>78-93-3<br>[BUTANONE]                          | 200   | 600               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[BUTANONE]                          | 300   | 900               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[BUTAN-2-ONE (METHYL ETHYL KETONE)] | 300   | 899               | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]             |       |                   | Skin designation:                 | Can be absorbed through the skin.            | EH40 WEL        |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]             | 1     | 2,5               | Time Weighted Average (TWA):      |                                              | EH40 WEL        |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]             | 3     | 7,6               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]             | 1     | 2,5               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]             | 3     | 7,6               | Short Term Exposure Limit (STEL): | 15 minutes                                   | 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 |
|----------------------------------------------------|-------|-------------------|-----------------------------------|----------------------------------------------|-----------------|
| Dimethoxymethane<br>109-87-5<br>[METHYLAL]         | 1.000 | 3.100             | Time Weighted Average (TWA):      |                                              | IR_OEL          |
| 1,3-Dioxolane<br>646-06-0<br>[1,3-DIOXOLANE]       | 20    |                   | Time Weighted Average (TWA):      |                                              | IR_OEL          |
| 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          |
| Ethanol<br>64-17-5<br>[ETHANOL]                    | 1.000 |                   | Short Term Exposure Limit (STEL): | 15 minutes                                   | IR_OEL          |
| Butane<br>106-97-8<br>[N-BUTANE]                   | 1.000 |                   | Short Term Exposure Limit (STEL): | 15 minutes                                   | IR_OEL          |
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)] | 200   | 600               | Time Weighted Average (TWA):      | Indicative OELV                              | IR_OEL          |
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)] |       |                   | Skin designation:                 | Can be absorbed through the skin.            | IR_OEL          |
| Butanone<br>78-93-3<br>[BUTANONE]                  | 200   | 600               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[BUTANONE]                  | 300   | 900               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| Butanone<br>78-93-3<br>[METHYL ETHYL KETONE (MEK)] | 300   | 900               | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV                | IR_OEL          |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]     | 1     | 2,5               | Time Weighted Average (TWA):      | Indicative OELV                              | IR_OEL          |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]     | 3     | 7,6               | Short Term Exposure Limit (STEL): | Indicative                                   | ECTLV           |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]     | 1     | 2,5               | Time Weighted Average (TWA):      | Indicative                                   | ECTLV           |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]     |       |                   | Skin designation:                 | Can be absorbed through the skin.            | IR_OEL          |
| 2-Aminoethanol<br>141-43-5<br>[2-AMINOETHANOL]     | 3     | 7,6               | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV                | IR_OEL          |

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

| Name on list                 | Environmental<br>Compartment       | Exposure<br>period | Value          |     |                 |        | Remarks |
|------------------------------|------------------------------------|--------------------|----------------|-----|-----------------|--------|---------|
|                              |                                    |                    | mg/l           | ppm | mg/kg           | others |         |
| Dimethoxymethane<br>109-87-5 | aqua<br>(freshwater)               |                    | 14,577<br>mg/l |     |                 |        |         |
| Dimethoxymethane<br>109-87-5 | aqua (marine<br>water)             |                    | 1,4577<br>mg/l |     |                 |        |         |
| Dimethoxymethane<br>109-87-5 | sediment<br>(freshwater)           |                    |                |     | 13,135<br>mg/kg |        |         |
| Dimethoxymethane<br>109-87-5 | sediment<br>(marine water)         |                    |                |     | 1,3135<br>mg/kg |        |         |
| Dimethoxymethane<br>109-87-5 | Soil                               |                    |                |     | 4,6538<br>mg/kg |        |         |
| Dimethoxymethane<br>109-87-5 | Sewage<br>treatment plant          |                    | 10000 mg/l     |     |                 |        |         |
| 1,3-Dioxolane<br>646-06-0    | aqua<br>(freshwater)               |                    | 19,7 mg/l      |     |                 |        |         |
| 1,3-Dioxolane<br>646-06-0    | aqua (marine<br>water)             |                    | 1,97 mg/l      |     |                 |        |         |
| 1,3-Dioxolane<br>646-06-0    | aqua<br>(intermittent<br>releases) |                    | 0,95 mg/l      |     |                 |        |         |
| 1,3-Dioxolane<br>646-06-0    | sediment<br>(freshwater)           |                    |                |     | 77,7 mg/kg      |        |         |
| 1,3-Dioxolane<br>646-06-0    | sediment<br>(marine water)         |                    |                |     | 7,77 mg/kg      |        |         |
| 1,3-Dioxolane<br>646-06-0    | Soil                               |                    |                |     | 2,62 mg/kg      |        |         |
| 1,3-Dioxolane<br>646-06-0    | Sewage<br>treatment plant          |                    | 1 mg/l         |     |                 |        |         |
| 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       |        |         |
| Ethanol<br>64-17-5           | aqua<br>(freshwater)               |                    | 0,96 mg/l      |     |                 |        |         |
| Ethanol<br>64-17-5           | aqua (marine<br>water)             |                    | 0,79 mg/l      |     |                 |        |         |
| Ethanol<br>64-17-5           | aqua<br>(intermittent<br>releases) |                    | 2,75 mg/l      |     |                 |        |         |
| Ethanol<br>64-17-5           | sewage<br>treatment plant<br>(STP) |                    | 580 mg/l       |     |                 |        |         |
| Ethanol<br>64-17-5           | sediment<br>(freshwater)           |                    |                |     | 3,6 mg/kg       |        |         |
| Ethanol<br>64-17-5           | sediment<br>(marine water)         |                    |                |     | 2,9 mg/kg       |        |         |
| Ethanol<br>64-17-5           | Soil                               |                    |                |     | 0,63 mg/kg      |        |         |
| Ethanol<br>64-17-5           | oral                               |                    |                |     | 380 mg/kg       |        |         |
| Butanone<br>78-93-3          | aqua<br>(freshwater)               |                    | 55,8 mg/l      |     |                 |        |         |
| Butanone                     | aqua (marine                       |                    | 55,8 mg/l      |     |                 |        |         |

|                            |                                    |  |            |  |                 |  |  |
|----------------------------|------------------------------------|--|------------|--|-----------------|--|--|
| 78-93-3                    | water)                             |  |            |  |                 |  |  |
| Butanone<br>78-93-3        | aqua<br>(intermittent<br>releases) |  | 55,8 mg/l  |  |                 |  |  |
| Butanone<br>78-93-3        | sewage<br>treatment plant<br>(STP) |  | 709 mg/l   |  |                 |  |  |
| Butanone<br>78-93-3        | sediment<br>(freshwater)           |  |            |  | 284,74<br>mg/kg |  |  |
| Butanone<br>78-93-3        | sediment<br>(marine water)         |  |            |  | 284,7<br>mg/kg  |  |  |
| Butanone<br>78-93-3        | Soil                               |  |            |  | 22,5 mg/kg      |  |  |
| Butanone<br>78-93-3        | oral                               |  |            |  | 1000<br>mg/kg   |  |  |
| 2-Aminoethanol<br>141-43-5 | aqua<br>(freshwater)               |  | 0,07 mg/l  |  |                 |  |  |
| 2-Aminoethanol<br>141-43-5 | aqua (marine<br>water)             |  | 0,007 mg/l |  |                 |  |  |
| 2-Aminoethanol<br>141-43-5 | aqua<br>(intermittent<br>releases) |  | 0,028 mg/l |  |                 |  |  |
| 2-Aminoethanol<br>141-43-5 | sediment<br>(freshwater)           |  |            |  | 0,357<br>mg/kg  |  |  |
| 2-Aminoethanol<br>141-43-5 | sediment<br>(marine water)         |  |            |  | 0,036<br>mg/kg  |  |  |
| 2-Aminoethanol<br>141-43-5 | Soil                               |  |            |  | 1,29 mg/kg      |  |  |
| 2-Aminoethanol<br>141-43-5 | sewage<br>treatment plant<br>(STP) |  | 100 mg/l   |  |                 |  |  |

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

| Name on list                 | Application Area   | Route of Exposure | Health Effect                         | Exposure Time | Value       | Remarks |
|------------------------------|--------------------|-------------------|---------------------------------------|---------------|-------------|---------|
| Dimethoxymethane<br>109-87-5 | Workers            | dermal            | Long term exposure - systemic effects |               | 17,9 mg/kg  |         |
| Dimethoxymethane<br>109-87-5 | Workers            | inhalation        | Long term exposure - systemic effects |               | 126,6 mg/m3 |         |
| Dimethoxymethane<br>109-87-5 | General population | oral              | Long term exposure - systemic effects |               | 18,1 mg/kg  |         |
| Dimethoxymethane<br>109-87-5 | General population | inhalation        | Long term exposure - systemic effects |               | 31,5 mg/m3  |         |
| Dimethoxymethane<br>109-87-5 | General population | dermal            | Long term exposure - systemic effects |               | 18,1 mg/kg  |         |
| 1,3-Dioxolane<br>646-06-0    | Workers            | dermal            | Long term exposure - systemic effects |               | 1,18 mg/kg  |         |
| 1,3-Dioxolane<br>646-06-0    | Workers            | inhalation        | Long term exposure - systemic effects |               | 3,306 mg/m3 |         |
| Propan-2-ol<br>67-63-0       | Workers            | dermal            | Long term exposure - systemic effects |               | 888 mg/kg   |         |
| Propan-2-ol<br>67-63-0       | Workers            | inhalation        | Long term exposure - systemic effects |               | 500 mg/m3   |         |
| Propan-2-ol<br>67-63-0       | General population | dermal            | Long term exposure - systemic effects |               | 319 mg/kg   |         |
| Propan-2-ol<br>67-63-0       | General population | inhalation        | Long term exposure - systemic effects |               | 89 mg/m3    |         |
| Propan-2-ol<br>67-63-0       | General population | oral              | Long term exposure - systemic effects |               | 26 mg/kg    |         |
| Ethanol<br>64-17-5           | Workers            | dermal            | Long term exposure - systemic effects |               | 343 mg/kg   |         |
| Ethanol<br>64-17-5           | Workers            | inhalation        | Long term exposure - systemic effects |               | 950 mg/m3   |         |
| Ethanol<br>64-17-5           | General population | dermal            | Long term exposure - systemic effects |               | 206 mg/kg   |         |
| Ethanol<br>64-17-5           | General population | inhalation        | Long term exposure - systemic effects |               | 114 mg/m3   |         |
| Ethanol<br>64-17-5           | General population | oral              | Long term exposure - systemic effects |               | 87 mg/kg    |         |
| Butanone<br>78-93-3          | Workers            | dermal            | Long term exposure - systemic effects |               | 1161 mg/kg  |         |
| Butanone<br>78-93-3          | Workers            | inhalation        | Long term exposure - systemic effects |               | 600 mg/m3   |         |
| Butanone<br>78-93-3          | General population | dermal            | Long term exposure - systemic effects |               | 412 mg/kg   |         |
| Butanone<br>78-93-3          | General population | inhalation        | Long term exposure - systemic effects |               | 106 mg/m3   |         |
| Butanone<br>78-93-3          | General population | oral              | Long term exposure - systemic effects |               | 31 mg/kg    |         |
| 2-Aminoethanol<br>141-43-5   | Workers            | inhalation        | Long term exposure -                  |               | 1 mg/m3     |         |

|                            |                       |            |                                             |  |            |  |
|----------------------------|-----------------------|------------|---------------------------------------------|--|------------|--|
|                            |                       |            | systemic effects                            |  |            |  |
| 2-Aminoethanol<br>141-43-5 | Workers               | inhalation | Long term<br>exposure - local<br>effects    |  | 0,51 mg/m3 |  |
| 2-Aminoethanol<br>141-43-5 | Workers               | dermal     | Long term<br>exposure -<br>systemic effects |  | 3 mg/kg    |  |
| 2-Aminoethanol<br>141-43-5 | General<br>population | dermal     | Long term<br>exposure -<br>systemic effects |  | 1,5 mg/kg  |  |
| 2-Aminoethanol<br>141-43-5 | General<br>population | oral       | Long term<br>exposure -<br>systemic effects |  | 1,5 mg/kg  |  |
| 2-Aminoethanol<br>141-43-5 | General<br>population | inhalation | Long term<br>exposure -<br>systemic effects |  | 0,18 mg/m3 |  |
| 2-Aminoethanol<br>141-43-5 | General<br>population | inhalation | Long term<br>exposure - local<br>effects    |  | 0,28 mg/m3 |  |

**Biological Exposure Indices:**

| Ingredient [Regulated<br>substance]  | Parameters  | Biological<br>specimen | Sampling time                   | Conc. | Basis of biol.<br>exposure index | Remark | Additional<br>Information |
|--------------------------------------|-------------|------------------------|---------------------------------|-------|----------------------------------|--------|---------------------------|
| Butanone<br>78-93-3<br>[BUTAN-2-ONE] | Butan-2-one | Urine                  | Sampling time: End of<br>shift. |       | UKEH40BMG<br>V                   |        |                           |

**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:  
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:  
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

|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Delivery form                          | aerosol                                                                                                                             |
| Colour                                 | Amber                                                                                                                               |
| Odor                                   | Alcoholic                                                                                                                           |
| Physical state                         | aerosol                                                                                                                             |
| Melting point                          | Not applicable, Product is a liquid                                                                                                 |
| Initial boiling point                  | -44,5 °C (-48.1 °F)                                                                                                                 |
| Flammability                           | Extremely flammable aerosol.                                                                                                        |
| Explosive limits                       |                                                                                                                                     |
| lower                                  | 0,70 %(V);                                                                                                                          |
| upper                                  | 19,90 %(V);                                                                                                                         |
|                                        | Upper/lower explosion limit                                                                                                         |
| Flash point                            | -97 °C (-142.6 °F)                                                                                                                  |
| Auto-ignition temperature              | Currently under determination                                                                                                       |
| Decomposition temperature              | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH                                     | Product is an aerosol. Concentrate is non-polar/aprotic., Not applicable                                                            |
| Viscosity (kinematic)                  | Not determined                                                                                                                      |
| Viscosity, dynamic                     | Not determined                                                                                                                      |
| ()                                     |                                                                                                                                     |
| Solubility (qualitative)               | Not miscible                                                                                                                        |
| (20 °C (68 °F); Solvent: Water)        |                                                                                                                                     |
| Solubility (qualitative)               | Miscible                                                                                                                            |
| (20 °C (68 °F); Solvent: Acetone)      |                                                                                                                                     |
| Partition coefficient: n-octanol/water | Not applicable                                                                                                                      |
|                                        | Mixture                                                                                                                             |
| Vapour pressure                        | Not determined                                                                                                                      |
| Density                                | 0,79 g/cm3 None                                                                                                                     |
| (20 °C (68 °F))                        |                                                                                                                                     |
| Relative vapour density:               | Not available.                                                                                                                      |
| Particle characteristics               | Not applicable                                                                                                                      |
|                                        | Product is a liquid                                                                                                                 |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

|           |                                                                                                                                                                                                                      |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aerosols: | Classified as Aerosol category 1 because it contains more than 1 % (by mass) flammable components or has a heat of combustion of at least 20 kJ/g and is not submitted to the flammability classification procedures |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

### 10.5. Incompatible materials

See section reactivity.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****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                                                            |
|-------------------------------------------------------------------------------------|---------------|----------------|---------|-------------------------------------------------------------------|
| Methylal<br>109-87-5                                                                | LD50          | 6.423 mg/kg    | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| 1,3-Dioxolane<br>646-06-0                                                           | LD50          | > 2.000 mg/kg  | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Propan-2-ol<br>67-63-0                                                              | LD50          | 5.840 mg/kg    | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Ethanol<br>64-17-5                                                                  | LD50          | 10.470 mg/kg   | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Butanone<br>78-93-3                                                                 | LD50          | 2.193 mg/kg    | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| 2-aminoethanol<br>141-43-5                                                          | LD50          | 1.089 mg/kg    | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Hydrocarbons, C10-C13,<br>n-alkanes, isoalkanes,<br>cyclics, < 2% aromatic<br>----- | LD50          | > 15.000 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                                                              |
|-------------------------------------------------------------------------------------|---------------|---------------|---------|---------------------------------------------------------------------|
| Methylal<br>109-87-5                                                                | LD50          | > 5.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| 1,3-Dioxolane<br>646-06-0                                                           | LD50          | > 2.000 mg/kg | rabbit  | not specified                                                       |
| Propan-2-ol<br>67-63-0                                                              | LD50          | 12.870 mg/kg  | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Ethanol<br>64-17-5                                                                  | LD50          | > 2.000 mg/kg | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Butanone<br>78-93-3                                                                 | LD50          | > 6.400 mg/kg | rabbit  | not specified                                                       |
| 2-aminoethanol<br>141-43-5                                                          | LD50          | 1.025 mg/kg   | rabbit  | not specified                                                       |
| Hydrocarbons, C10-C13,<br>n-alkanes, isoalkanes,<br>cyclics, < 2% aromatic<br>----- | LD50          | > 5.000 mg/kg | rabbit  | equivalent or similar to 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                                                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|--------------|-----------------|------------------|---------|-------------------------------------------------------------------------------|
| Methylal<br>109-87-5                                                                | LC50                                   | 15.000 mg/l  | vapour          | 4 h              | rat     | not specified                                                                 |
| Propane<br>74-98-6                                                                  | LC50                                   | > 800000 ppm | gas             | 15 min           | rat     | not specified                                                                 |
| Ethanol<br>64-17-5                                                                  | LC50                                   | 124,7 mg/l   | vapour          | 4 h              | rat     | OECD Guideline 403 (Acute<br>Inhalation Toxicity)                             |
| Butane, n- (< 0.1 %<br>butadiene)<br>106-97-8                                       | LC50                                   | 274200 ppm   | gas             | 4 h              | rat     | not specified                                                                 |
| Butanone<br>78-93-3                                                                 | LC50                                   | 34,5 mg/l    | vapour          | 4 h              | rat     | not specified                                                                 |
| 2-aminoethanol<br>141-43-5                                                          | Acute<br>toxicity<br>estimate<br>(ATE) | 1,5 mg/l     | dust/mist       |                  |         | Expert judgement                                                              |
| 2-aminoethanol<br>141-43-5                                                          | LC50                                   | 1 - 5 mg/l   |                 | 4 h              | rat     | not specified                                                                 |
| Hydrocarbons, C10-C13,<br>n-alkanes, isoalkanes,<br>cyclics, < 2% aromatic<br>----- | LC50                                   | > 5,6 mg/l   | dust/mist       | 4 h              | rat     | equivalent or similar to OECD<br>Guideline 403 (Acute<br>Inhalation Toxicity) |

**Skin corrosion/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                                                              | not irritating       | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                             |
| Ethanol<br>64-17-5                                                                  | not irritating       |                  | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                             |
| Butanone<br>78-93-3                                                                 | not irritating       | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                             |
| 2-aminoethanol<br>141-43-5                                                          | corrosive            |                  | rabbit  | equivalent or similar to OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |
| 2-aminoethanol<br>141-43-5                                                          | corrosive            | 4 h              | rabbit  | equivalent or similar to OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |
| 2-aminoethanol<br>141-43-5                                                          | corrosive            |                  | rabbit  | equivalent or similar to OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |
| Hydrocarbons, C10-C13,<br>n-alkanes, isoalkanes,<br>cyclics, < 2% aromatic<br>----- | mildly<br>irritating | 4 h              | rabbit  | equivalent or similar to OECD Guideline 404 (Acute<br>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 2A<br>(irritating to<br>eyes)                |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye<br>Irritation / Corrosion) |
| Ethanol<br>64-17-5              | irritating                                            |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                             |
| Butanone<br>78-93-3             | irritating                                            |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye<br>Irritation / Corrosion) |
| 2-aminoethanol<br>141-43-5      | Category 1<br>(irreversible<br>effects on the<br>eye) |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye<br>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)                             |
| Ethanol<br>64-17-5              | not sensitising | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                             |
| Ethanol<br>64-17-5              | not sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay)  |
| Butanone<br>78-93-3             | not sensitising | Buehler test                          | guinea pig | equivalent or similar to OECD Guideline<br>406 (Skin Sensitisation) |
| 2-aminoethanol<br>141-43-5      | not sensitising | Guinea pig maximisation<br>test       | guinea pig | not specified                                                       |

**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                                                                                               |
|-----------------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| 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)                             |
| 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)    |
| Ethanol<br>64-17-5                            | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) |                                            |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                          |
| Ethanol<br>64-17-5                            | negative | in vitro mammalian<br>chromosome<br>aberration test    | without                                    |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                             |
| Ethanol<br>64-17-5                            | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD 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)                             |
| Butanone<br>78-93-3                           | 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)                 |
| Butanone<br>78-93-3                           | negative | in vitro mammalian<br>chromosome<br>aberration test    | not applicable                             |         | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Butanone<br>78-93-3                           | 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)    |
| 2-aminoethanol<br>141-43-5                    | 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)                 |
| 2-aminoethanol<br>141-43-5                    | negative | in vitro mammalian<br>chromosome<br>aberration test    | without                                    |         | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| 2-aminoethanol<br>141-43-5                    | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation 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) |
| Ethanol<br>64-17-5              | not carcinogenic |                         |                                                 |         |             | Expert judgement                                   |

**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                                                                                                                                  |
|-----------------------------------------------|-------------------------------------------------------------------|-----------------------------|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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) |
| 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)                                      |
| Ethanol<br>64-17-5                            | NOAEL P 13.800 mg/kg                                              | Two<br>generation<br>study  | oral:<br>unspecified       | mouse   | 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) |
| Butanone<br>78-93-3                           | NOAEL P 10.000 mg/l<br>NOAEL F1 10.000 mg/l                       | two-<br>generation<br>study | oral:<br>drinking<br>water | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                      |
| 2-aminoethanol<br>141-43-5                    | NOAEL P 300 mg/kg<br>NOAEL F1 1.000 mg/kg<br>NOAEL F2 1.000 mg/kg | Two<br>generation<br>study  | oral: feed                 | rat     | OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                                                  |

**STOT-single exposure:**

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

| Hazardous substances<br>CAS-No. | Assessment                            | Route of<br>exposure | Target Organs | Remarks |
|---------------------------------|---------------------------------------|----------------------|---------------|---------|
| Butanone<br>78-93-3             | May cause drowsiness or<br>dizziness. |                      |               |         |
| 2-aminoethanol<br>141-43-5      | May cause respiratory irritation.     |                      |               |         |

**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                                                                                                                                  |
|-----------------------------------------------|-----------------|-------------------------|----------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 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) |
| Propan-2-ol<br>67-63-0                        |                 | inhalation:<br>vapour   | 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<br>6 h/d                                | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Butanone<br>78-93-3                           | NOAEL 2500 ppm  | inhalation              | 90 days<br>6 hours/day, 5<br>days/week       | rat     | not specified                                                                                                                           |
| 2-aminoethanol<br>141-43-5                    | NOAEL 300 mg/kg | oral: feed              | > 75 d<br>daily                              | rat     | other guideline:                                                                                                                        |

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

| Hazardous substances<br>CAS-No.                                                     | Viscosity (kinematic)<br>Value | Temperature | Method              | Remarks |
|-------------------------------------------------------------------------------------|--------------------------------|-------------|---------------------|---------|
| Propan-2-ol<br>67-63-0                                                              | 1,8 mm <sup>2</sup> /s         | 40 °C       | ASTM Standard D7042 |         |
| Butanone<br>78-93-3                                                                 | 0,51 mm <sup>2</sup> /s        | 20 °C       | ASTM Standard D7042 |         |
| Hydrocarbons, C10-C13,<br>n-alkanes, isoalkanes,<br>cyclics, < 2% aromatic<br>----- | 1,13 mm <sup>2</sup> /s        | 40 °C       | not specified       |         |

**11.2 Information on other hazards**

not applicable

**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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                               | Value<br>type | Value                 | Exposure time | Species             | Method                                                                                  |
|-------------------------------------------------------------------------------|---------------|-----------------------|---------------|---------------------|-----------------------------------------------------------------------------------------|
| Methylal<br>109-87-5                                                          | LC50          | 6.990 mg/l            | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test)                                          |
| 1,3-Dioxolane<br>646-06-0                                                     | LC50          | > 95,4 mg/l           | 96 h          | Lepomis macrochirus | OECD Guideline 203 (Fish, Acute Toxicity Test)                                          |
| Propan-2-ol<br>67-63-0                                                        | LC50          | > 9.640 - 10.000 mg/l | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test)                                          |
| Ethanol<br>64-17-5                                                            | LC50          | 14.200 mg/l           | 96 h          | Pimephales promelas | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| Ethanol<br>64-17-5                                                            | NOEC          | 250 mg/l              | 120 h         | Danio rerio         | OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages)        |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                                    | LC50          | 27,98 mg/l            | 96 h          |                     | QSAR (Quantitative Structure Activity Relationship)                                     |
| Butanone<br>78-93-3                                                           | LC50          | 3.220 mg/l            | 96 h          | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test)                                          |
| 2-aminoethanol<br>141-43-5                                                    | LC50          | 349 mg/l              | 96 h          | Cyprinus carpio     | EU Method C.1 (Acute Toxicity for Fish)                                                 |
| 2-aminoethanol<br>141-43-5                                                    | NOEC          | 1,24 mg/l             | 41 d          | Oryzias latipes     | OECD Guideline 210 (fish early life stage toxicity test)                                |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic<br>----- | LL50          | > 1.000 mg/l          | 96 h          | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test)                                          |

**Toxicity (aquatic invertebrates):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.            | Value<br>type | Value        | Exposure time | Species            | Method                                                     |
|--------------------------------------------|---------------|--------------|---------------|--------------------|------------------------------------------------------------|
| Methylal<br>109-87-5                       | EC50          | > 500 mg/l   | 48 h          | Daphnia magna      | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 1,3-Dioxolane<br>646-06-0                  | EC50          | > 772 mg/l   | 48 h          | Daphnia magna      | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethanol<br>64-17-5                         | EC50          | 5.012 mg/l   | 48 h          | Ceriodaphnia dubia | other guideline:                                           |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | EC50          | 14,22 mg/l   | 48 h          |                    | QSAR (Quantitative Structure Activity Relationship)        |
| Butanone<br>78-93-3                        | EC50          | 5.091 mg/l   | 48 h          | Daphnia magna      | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-aminoethanol<br>141-43-5                 | EC50          | 27,04 mg/l   | 48 h          | Daphnia magna      | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hydrocarbons, C10-C13, n-                  | EL50          | > 1.000 mg/l | 48 h          | Daphnia magna      | OECD Guideline 202                                         |

|                                                         |  |  |  |  |                                            |
|---------------------------------------------------------|--|--|--|--|--------------------------------------------|
| alkanes, isoalkanes, cyclics, <<br>2% aromatic<br>----- |  |  |  |  | (Daphnia sp. Acute<br>Immobilisation Test) |
|---------------------------------------------------------|--|--|--|--|--------------------------------------------|

**Chronic toxicity (aquatic invertebrates):**

The table below presents the data of 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) |
| Ethanol<br>64-17-5              | NOEC          | 9,6 mg/l  | 9 d           | Daphnia magna | not specified                                  |
| 2-aminoethanol<br>141-43-5      | NOEC          | 0,85 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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                      | Value<br>type | Value        | Exposure time | Species                                                                      | Method                                                    |
|--------------------------------------------------------------------------------------|---------------|--------------|---------------|------------------------------------------------------------------------------|-----------------------------------------------------------|
| Methylal<br>109-87-5                                                                 | EC10          | > 500 mg/l   | 96 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)            | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 1,3-Dioxolane<br>646-06-0                                                            | NOEC          | 877 mg/l     | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata)  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 1,3-Dioxolane<br>646-06-0                                                            | ErC50         | > 877 mg/l   | 72 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata)  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 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)      |
| Ethanol<br>64-17-5                                                                   | EC50          | 275 mg/l     | 72 h          | Chlorella vulgaris                                                           | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Ethanol<br>64-17-5                                                                   | EC10          | 11,5 mg/l    | 72 h          | Chlorella vulgaris                                                           | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                                           | EC50          | 7,71 mg/l    | 96 h          |                                                                              | QSAR (Quantitative<br>Structure Activity<br>Relationship) |
| Butanone<br>78-93-3                                                                  | EC50          | 1.240 mg/l   | 96 h          | Pseudokirchneriella subcapitata                                              | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Butanone<br>78-93-3                                                                  | EC10          | 1.010 mg/l   | 96 h          | Pseudokirchneriella subcapitata                                              | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 2-aminoethanol<br>141-43-5                                                           | EC50          | 2,8 mg/l     | 72 h          | Pseudokirchneriella subcapitata<br>(reported as Raphidocelis<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| 2-aminoethanol<br>141-43-5                                                           | EC10          | 0,7 mg/l     | 72 h          | Pseudokirchneriella subcapitata<br>(reported as Raphidocelis<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Hydrocarbons, C10-C13, n-<br>alkanes, isoalkanes, cyclics, <<br>2% aromatic<br>----- | EL50          | > 1.000 mg/l | 72 h          | Pseudokirchneriella subcapitata                                              | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |
| Hydrocarbons, C10-C13, n-<br>alkanes, isoalkanes, cyclics, <<br>2% aromatic<br>----- | NOELR         | 1.000 mg/l   | 72 h          | Pseudokirchneriella subcapitata                                              | OECD Guideline 201 (Alga,<br>Growth Inhibition Test)      |

#### Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value<br>type | Value        | Exposure time | Species                    | Method                                                                   |
|---------------------------------|---------------|--------------|---------------|----------------------------|--------------------------------------------------------------------------|
| Methylal<br>109-87-5            | EC10          | 3.000 mg/l   | 17 h          |                            | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)       |
| 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) |
| Ethanol<br>64-17-5              | IC50          | > 1.000 mg/l | 3 h           | activated sludge           | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |
| Butanone<br>78-93-3             | EC50          | 1.150 mg/l   | 16 h          | Pseudomonas putida         | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)       |
| 2-aminoethanol<br>141-43-5      | EC10          | > 1.000 mg/l | 3 h           | activated sludge, domestic | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test) |

**12.2. Persistence and degradability**

The table below presents the data of the classified substances present in the mixture.

| <b>Hazardous substances<br/>CAS-No.</b>                                       | <b>Result</b>              | <b>Test type</b> | <b>Degradability</b> | <b>Exposure<br/>time</b> | <b>Method</b>                                                                      |
|-------------------------------------------------------------------------------|----------------------------|------------------|----------------------|--------------------------|------------------------------------------------------------------------------------|
| Methylal<br>109-87-5                                                          | not readily biodegradable. | aerobic          | > 0 - < 60 %         | 28 d                     | OECD 301 A - F                                                                     |
| Propane<br>74-98-6                                                            | readily biodegradable      | aerobic          | > 60 %               | 28 d                     | OECD 301 A - F                                                                     |
| 1,3-Dioxolane<br>646-06-0                                                     |                            | aerobic          | 20 %                 |                          | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))              |
| 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) |
| Ethanol<br>64-17-5                                                            | readily biodegradable      | aerobic          | 80 - 85 %            | 30 d                     | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                  |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8                                    | readily biodegradable      | aerobic          | > 60 %               | 28 d                     | OECD 301 A - F                                                                     |
| Butanone<br>78-93-3                                                           | readily biodegradable      | aerobic          | 98 %                 | 28 d                     | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)                  |
| 2-aminoethanol<br>141-43-5                                                    | readily biodegradable      | aerobic          | > 80 %               | 19 d                     | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)                  |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic<br>----- | readily biodegradable      | aerobic          | 80 %                 | 28 d                     | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)        |

**12.3. Bioaccumulative potential**

No data available.

#### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.            | LogPow | Temperature | Method                                                                             |
|--------------------------------------------|--------|-------------|------------------------------------------------------------------------------------|
| 1,3-Dioxolane<br>646-06-0                  | -0,35  |             | not specified                                                                      |
| Propan-2-ol<br>67-63-0                     | 0,05   |             | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Ethanol<br>64-17-5                         | -0,35  | 24 °C       | not specified                                                                      |
| Butane, n- (< 0.1 % butadiene)<br>106-97-8 | 2,31   | 20 °C       | other (measured)                                                                   |
| Butanone<br>78-93-3                        | 0,3    | 40 °C       | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)        |
| 2-aminoethanol<br>141-43-5                 | -1,91  | 25 °C       | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

#### 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                               | PBT / vPvB                                                                                                            |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Methylal<br>109-87-5                                                          | 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. |
| 1,3-Dioxolane<br>646-06-0                                                     | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propan-2-ol<br>67-63-0                                                        | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Ethanol<br>64-17-5                                                            | 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. |
| Butanone<br>78-93-3                                                           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-aminoethanol<br>141-43-5                                                    | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic<br>----- | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. 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.

Waste code

08 04 09\* waste adhesives and sealants containing organic solvents and other dangerous substances

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 or ID 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 |
|-----|----------------|

|      |                                          |
|------|------------------------------------------|
|      | Tunnelcode: (D)                          |
| RID  | not applicable                           |
| ADN  | not applicable                           |
| IMDG | IMDG-Code: Segregation group 18- Alkalis |
| IATA | not applicable                           |

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

## SECTION 15: Regulatory information

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

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |
| VOC content<br>(2010/75/EC)                                    | 92,09 %        |

**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 vapour.  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

### Further information:

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