

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

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LOCTITE SF 7023 known as Loctite 7023 400ml A.Sol EPIG

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

1.1. Product identifier

LOCTITE SF 7023 known as Loctite 7023 400ml A.Sol EPIG

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

ua-productsafety.uk@henkel.com

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Flammable aerosols Category 1

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness.

Target organ: Central nervous system

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Specific target organ toxicity - repeated exposure Category 2

H373 May cause damage to organs through prolonged or repeated exposure.

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Reaction mass of ethylbenzene and xylene

Propan-2-ol Butanone

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Signal word: Danger

Hazard statement: H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement: P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}\text{C}/122^{\circ}\text{F}$.

P211 Do not spray on an open flame or other ignition source.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P102 Keep out of reach of children.

"***" ***For consumer use only: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P501 Dispose of

contents/container in accordance with national regulation.***

Precautionary statement: P261 Avoid breathing vapors.

Prevention P273 Avoid release to the environment.

Precautionary statement: P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

2.3. Other hazards

The aerosol container is under pressure. Do not expose to high temperatures.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. None if used properly.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Solvent cleaner

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

| Hazardous components | EC Number | content | Classification |
|--|---|------------|---|
| CAS-No. | REACH-Reg No. | | |
| Reaction mass of ethylbenzene and xylene | 905-588-0 01-2119486136-34 01-2119488216-32 01-2119539452-40 | 25- < 50 % | Flam. Liq. 3 H226 Asp. Tox. 1 H304 Acute Tox. 4; Dermal H312 Skin Irrit. 2 |
| | | | H315 Eye Irrit. 2 H319 Acute Tox. 4; Inhalation H332 STOT SE 3 H335 STOT RE 2 H373 |
| Butanone 78-93-3 | 201-159-0 01-2119457290-43 | 10-< 25 % | STOT SE 3 H336 Eye Irrit. 2 H319 Flam. Liq. 2 H225 |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics 68920-06-9 | 272-912-9 | 10- < 25 % | Asp. Tox. 1 H304 Flam. Liq. 2 H225 STOT SE 3; Inhalation H336 Aquatic Chronic 2 H411 |
| Propan-2-ol 67-63-0 | 200-661-7 01-2119457558-25 | 10- < 25 % | Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 |
| Propane 74-98-6 | 200-827-9 01-2119486944-21 | 10-< 25 % | Flam. Gas 1 H220 Press. Gas H280 |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | 203-448-7 01-2119474691-32 | 1-< 2,5 % | Flam. Gas 1 H220 Press. Gas H280 |
| 2-Butoxyethanol 111-76-2 | 203-905-0 01-2119475108-36 | 1-< 2,5 % | Acute Tox. 4; Inhalation H332 Acute Tox. 4; Oral H302 Eye Irrit. 2 H319 Skin Irrit. 2 H315 |

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

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

> 30 % aliphatic hydrocarbons 15 - 30 % aromatic hydrocarbons

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air. 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 if necessary.

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

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

Vapors may cause drowsiness and dizziness.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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:

Foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

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

Remove sources of ignition.

Ensure adequate ventilation.

Wear protective equipment.

Avoid contact with skin and eyes.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

See advice in section 8

Hygiene measures:

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

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place.

Do not store near sources of heat or ignition, or reactive materials. Refer to Technical Data Sheet

7.3. Specific end use(s)

Solvent based cleaner

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

| Ingredient [Regulated substance] | nt [Regulated substance] ppm mg/m³ Value type | | Short term exposure limit category / Remarks | Regulatory list | |
|---|---|-------|--|-----------------------------------|----------|
| Butanone 78-93-3 [BUTAN-2-ONE (METHYL ETHYL KETONE)] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Butanone 78-93-3 [BUTAN-2-ONE (METHYL ETHYL KETONE)] | 200 | 600 | Time Weighted Average (TWA): | | EH40 WEL |
| Butanone 78-93-3 [BUTANONE] | 200 | 600 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Butanone 78-93-3 BUTANONE] | 300 | 900 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Butanone 78-93-3 (BUTAN-2-ONE (METHYL ETHYL KETONE)] | 300 | 899 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Propan-2-ol 57-63-0 PROPAN-2-OL] | 400 | 999 | Time Weighted Average (TWA): | | EH40 WEL |
| Propan-2-ol 57-63-0 PROPAN-2-OL] | 500 | 1.250 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Butane 106-97-8 BUTANE] | 600 | 1.450 | Time Weighted Average (TWA): | | EH40 WEL |
| Butane 106-97-8 BUTANE] | 750 | 1.810 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| 2-Butoxyethanol 11-76-2 2-BUTOXYETHANOL] | 25 | 123 | Time Weighted Average (TWA): | | EH40 WEL |
| 2-Butoxyethanol 11-76-2 2-BUTOXYETHANOL] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| 2-Butoxyethanol 11-76-2 2-BUTOXYETHANOL] | 20 | 98 | Time Weighted Average (TWA): | Indicative | ECTLV |
| 2-Butoxyethanol 11-76-2 2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| 2-Butoxyethanol 11-76-2 2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for

Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)] | 200 | 600 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Butanone 78-93-3 [BUTANONE] | 200 | 600 | Time Weighted Average (TWA): | Indicative | ECTLV |

| Butanone 78-93-3 [BUTANONE] | 300 | 900 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
|---|-------|-----|--------------------------------------|-----------------------------------|--------|
| Butanone 78-93-3 [METHYL ETHYL KETONE (MEK)] | 300 | 900 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 200 | | Time Weighted Average (TWA): | | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Propan-2-ol 67-63-0 [ISOPROPYL ALCOHOL] | 400 | | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| Butane 106-97-8 [N-BUTANE] | 1.000 | | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)] | 50 | 246 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)] | 20 | 98 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL (EGBE)] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL] | 20 | 98 | Time Weighted Average (TWA): | Indicative | ECTLV |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |

$\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------------|-----------------|------------|-----|-----------------|--------|---------|
| | Compartment | periou | mg/l | ppm | mg/kg | others | |
| Reaction mass of ethylbenzene and xylene | aqua (freshwater) | | 0,327 mg/l | | 3 3 | | |
| Reaction mass of ethylbenzene and xylene | aqua (marine water) | | 0,327 mg/l | | | | |
| Reaction mass of ethylbenzene and xylene | sewage treatment plant (STP) | | 6,58 mg/l | | | | |
| Reaction mass of ethylbenzene and xylene | sediment (freshwater) | | | | 12,46 mg/kg | | |
| Reaction mass of ethylbenzene and xylene | sediment (marine water) | | | | 12,46 mg/kg | | |
| Reaction mass of ethylbenzene and xylene | soil | | | | 2,31 mg/kg | | |
| Butanone 78-93-3 | aqua (freshwater) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | aqua (marine water) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | aqua (intermittent releases) | | 55,8 mg/l | | | | |
| Butanone 78-93-3 | sewage treatment plant (STP) | | 709 mg/l | | | | |
| Butanone 78-93-3 | sediment (freshwater) | | | | 284,74 mg/kg | | |
| Butanone 78-93-3 | sediment (marine water) | | | | 284,7 mg/kg | | |
| Butanone 78-93-3 | Soil | | | | 22,5 mg/kg | | |
| Butanone 78-93-3 | oral | | | | 1000 mg/kg | | |
| Propan-2-ol 67-63-0 | aqua (freshwater) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | aqua (marine water) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sediment (freshwater) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | sediment (marine water) | | | | 552 mg/kg | | |
| Propan-2-ol 67-63-0 | Soil | | | | 28 mg/kg | | |
| Propan-2-ol 67-63-0 | aqua (intermittent releases) | | 140,9 mg/l | | | | |
| Propan-2-ol 67-63-0 | sewage treatment plant (STP) | | 2251 mg/l | | | | |
| Propan-2-ol 67-63-0 | oral | | | | 160 mg/kg | | |
| 2-butoxyethanol 111-76-2 | aqua (freshwater) | | 8,8 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | aqua (marine water) | | 0,88 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | sewage treatment plant (STP) | | 463 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | sediment (freshwater) | | | | 34,6 mg/kg | | |
| 2-butoxyethanol 111-76-2 | sediment (marine water) | | | | 3,46 mg/kg | | |
| 2-butoxyethanol 111-76-2 | Soil | | | | 2,33 mg/kg | | |
| 2-butoxyethanol 111-76-2 | oral | | | | 20 mg/kg | | |
| 2-butoxyethanol 111-76-2 | aqua (intermittent releases) | | 26,4 mg/l | | | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|-----------------------|----------------------|--|------------------|------------|---------|
| Reaction mass of ethylbenzene and xylene | Workers | inhalation | Long term exposure - systemic effects | | 221 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | Workers | inhalation | Long term exposure - local effects | | 221 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | Workers | dermal | Long term exposure - systemic effects | | 212 mg/kg | |
| Reaction mass of ethylbenzene and xylene | General population | inhalation | Long term exposure - systemic effects | | 65,3 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | General population | dermal | Long term exposure - systemic effects | | 125 mg/kg | |
| Reaction mass of ethylbenzene and xylene | General population | oral | Long term exposure - systemic effects | | 12,5 mg/kg | |
| Reaction mass of ethylbenzene and xylene | Workers | inhalation | Acute/short term exposure - systemic effects | | 442 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | Workers | inhalation | Acute/short term exposure - local effects | | 442 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | General population | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | General population | inhalation | Long term exposure - local effects | | 65,3 mg/m3 | |
| Reaction mass of ethylbenzene and xylene | General population | inhalation | Acute/short term exposure - local effects | | 260 mg/m3 | |
| Butanone 78-93-3 | Workers | dermal | Long term exposure - systemic effects | | 1161 mg/kg | |
| Butanone 78-93-3 | Workers | inhalation | Long term exposure - systemic effects | | 600 mg/m3 | |
| Butanone 78-93-3 | General population | dermal | Long term exposure - systemic effects | | 412 mg/kg | |
| Butanone 78-93-3 | General population | inhalation | Long term exposure - systemic effects | | 106 mg/m3 | |
| Butanone 78-93-3 | General population | oral | Long term exposure - systemic effects | | 31 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | dermal | Long term exposure - systemic effects | | 888 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | inhalation | Long term exposure - systemic effects | | 500 mg/m3 | |
| Propan-2-ol 67-63-0 | General population | dermal | Long term exposure - systemic effects | | 319 mg/kg | |
| Propan-2-ol 67-63-0 | General population | inhalation | Long term exposure - systemic effects | | 89 mg/m3 | |
| Propan-2-ol 67-63-0 | General population | oral | Long term exposure - systemic effects | | 26 mg/kg | |
| 2-butoxyethanol 111-76-2 | Workers | inhalation | Long term exposure - systemic effects | | 98 mg/m3 | |
| 2-butoxyethanol 111-76-2 | Workers | inhalation | Acute/short term exposure - local effects | | 246 mg/m3 | |
| 2-butoxyethanol 111-76-2 | Workers | inhalation | Acute/short term exposure - | | 1091 mg/m3 | |

| | | | systemic effects | | | | |
|-----------------------------|---|------------|---|---------------|-----------|--|--|
| 2-butoxyethanol 111-76-2 | Workers | dermal | Long term exposure - systemic effects | 125 mg/kg | | | |
| 2-butoxyethanol 111-76-2 | Workers | dermal | Acute/short term exposure - systemic effects | 89 mg/kg | | | |
| 2-butoxyethanol 111-76-2 | General population | inhalation | Long term exposure - systemic effects | 59 mg/m3 | | | |
| 2-butoxyethanol 111-76-2 | General inhalation Acute/short term exposure - systemic effects | inhalation | | population e. | 426 mg/m3 | | |
| 2-butoxyethanol 111-76-2 | General population | inhalation | Acute/short term exposure - local effects | 147 mg/m3 | | | |
| 2-butoxyethanol 111-76-2 | General population | dermal | Long term exposure - systemic effects | 75 mg/kg | | | |
| 2-butoxyethanol 111-76-2 | General population | dermal | Acute/short term exposure - systemic effects | 89 mg/kg | | | |
| 2-butoxyethanol 111-76-2 | General population | oral | Long term exposure - systemic effects | 6,3 mg/kg | | | |
| 2-butoxyethanol 111-76-2 | General population | oral | Acute/short term exposure - systemic effects | 26,7 mg/kg | | | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Additional Information |
|--|-------------------|---------------------|------------------------------|-------|----------------------------------|-------------------------------|
| Butanone 78-93-3 [BUTAN-2-ONE] | Butan-2-one | Urine | Sampling time: End of shift. | | UKEH40BMG V | |
| 2-Butoxyethanol 111-76-2 [2-BUTOXYETHANOL] | Butoxyacetic acid | Creatinine in urine | Sampling time: End of shift. | | UKEH40BMG 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:

Wear protective glasses.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

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

Advices to personal protection equipment:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance aerosol transparent
Odor characteristic

Odour threshold No data available / Not applicable

pH Not applicable

Melting point No data available / Not applicable Solidification temperature No data available / Not applicable

Initial boiling point $-44.5 \,^{\circ}\text{C} \, (-48.1 \,^{\circ}\text{F})$ Flash point $-97 \,^{\circ}\text{C} \, (-142.6 \,^{\circ}\text{F})$

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable

Explosive limits

 lower
 0,7 %(V)

 upper
 12 %(V)

 Vapour pressure
 3400 hPa

(20 °C (68 °F))

Relative vapour density: No data available / Not applicable

Density 0,745 g/cm³

(20 °C (68 °F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Not miscible

(23 °C (73.4 °F); Solvent: Water)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Viscosity

Viscosity

No data available / Not applicable
Explosive properties

No data available / Not applicable
Oxidising properties

No data available / Not applicable
No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None known

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

None if used for intended purpose.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

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

| Hazardous substances | Value | Value | Species | Method |
|-------------------------|----------|-------------|---------|---|
| CAS-No. | type | | | |
| Reaction mass of | LD50 | 3.523 mg/kg | rat | not specified |
| ethylbenzene and xylene | | | | |
| Butanone | LD50 | 2.737 mg/kg | rat | not specified |
| 78-93-3 | | | | |
| Propan-2-ol | LD50 | 5.840 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral |
| 67-63-0 | | | | Toxicity) |
| 2-Butoxyethanol | Acute | 1.200 mg/kg | | Expert judgement |
| 111-76-2 | toxicity | | | |
| | estimate | | | |
| | (ATE) | | | |

Acute dermal toxicity:

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

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|------------------------------|---------------|---------------|------------|--|
| Butanone 78-93-3 | LD50 | > 6.400 mg/kg | rabbit | not specified |
| Propan-2-ol 67-63-0 | LD50 | 12.870 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Butoxyethanol 111-76-2 | LD0 | > 2.000 mg/kg | guinea pig | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Butoxyethanol 111-76-2 | LD50 | > 2.000 mg/kg | guinea pig | 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 CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---------------|--------------|-----------------|---------------|---------|---------------|
| Butanone 78-93-3 | LC50 | > 20 mg/l | vapour | 4 h | rat | not specified |
| Propan-2-ol 67-63-0 | LC50 | 72,6 mg/l | | 4 h | rat | not specified |
| Propane 74-98-6 | LC50 | > 800000 ppm | gas | 15 min | rat | not specified |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | LC50 | 274200 ppm | gas | 4 h | rat | not specified |

Skin corrosion/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|------------------------------|------------------------|---------------|---------|---|
| Butanone 78-93-3 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Propan-2-ol 67-63-0 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2-Butoxyethanol 111-76-2 | irritating | 4 h | rabbit | EU Method B.4 (Acute Toxicity: 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 CAS-No. | Result | Exposure time | Species | Method |
|------------------------------|-------------|---------------|---------|--|
| Butanone 78-93-3 | irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Propan-2-ol 67-63-0 | Category II | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 2-Butoxyethanol 111-76-2 | irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

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

| Hazardous substances | Result | Test type | Species | Method |
|-------------------------|-----------------|-------------------------|------------|---|
| CAS-No. | | | | |
| Reaction mass of | not sensitising | Mouse local lymphnode | mouse | OECD Guideline 429 (Skin Sensitisation: |
| ethylbenzene and xylene | | assay (LLNA) | | Local Lymph Node Assay) |
| Butanone | not sensitising | Buehler test | guinea pig | equivalent or similar to OECD Guideline |
| 78-93-3 | | | | 406 (Skin Sensitisation) |
| Propan-2-ol | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 67-63-0 | | | | |
| 2-Butoxyethanol | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 111-76-2 | _ | test | | |

Germ cell mutagenicity:

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

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|----------------------------|--|
| Reaction mass of | negative | in vitro mammalian | with and without | | EU Method B.10 |
| ethylbenzene and xylene | negative | chromosome aberration test | with and without | | (Mutagenicity) |
| Reaction mass of ethylbenzene and xylene | negative | sister chromatid exchange assay in mammalian cells | with and without | | EU Method B.19 (Sister Chromatid Exchange Assay In Vitro) |
| Butanone 78-93-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Butanone 78-93-3 | negative | in vitro mammalian chromosome aberration test | not applicable | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Butanone 78-93-3 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Propan-2-ol 67-63-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Propane 74-98-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propane 74-98-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 2-Butoxyethanol 111-76-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2-Butoxyethanol 111-76-2 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 2-Butoxyethanol 111-76-2 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Reaction mass of ethylbenzene and xylene | negative | intraperitoneal | | rat | OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| Butanone 78-93-3 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Propan-2-ol 67-63-0 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Propane 74-98-6 | negative | | | Drosophila melanogaster | not specified |
| Propane 74-98-6 | negative | inhalation: gas | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | negative | | | Drosophila melanogaster | not specified |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | negative | inhalation: gas | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| 2-Butoxyethanol | negative | intraperitoneal | | mouse | OECD Guideline 474 |

| | | | • | |
|----------|--|--|------------------------|---|
| 111-76-2 | | | (Mammalian Erythrocyte | ĺ |
| | | | Micronucleus Test) | İ |

Carcinogenicity

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

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|--|------------------|-----------------------|--|---------|-------------|--|
| Reaction mass of ethylbenzene and xylene | not carcinogenic | oral: gavage | 5 days per week/103 weeks once daily (5 days/week) | rat | male/female | EU Method B.32 (Carcinogenicity Test) |
| Propan-2-ol 67-63-0 | | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |

Reproductive toxicity:

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

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---|-----------------------------|----------------------------|---------|---|
| Butanone 78-93-3 | NOAEL P 10.000 mg/l NOAEL F1 10.000 mg/l | two- generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 853 mg/kg | One generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| Propane 74-98-6 | NOAEL P 21,6 mg/l NOAEL F1 21,6 mg/l | screening | inhalation: gas | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | NOAEL P 21,4 mg/l NOAEL F1 21,4 mg/l | screening | inhalation: gas | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2-Butoxyethanol 111-76-2 | NOAEL P 720 mg/kg NOAEL F1 720 mg/kg NOAEL F2 720 mg/kg | Two generation study | oral: drinking water | mouse | not specified |

STOT-single exposure:

No data available.

STOT-repeated exposure::

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|------------------|----------------------------|--|---------|---|
| Reaction mass of ethylbenzene and xylene | NOAEL 150 mg/kg | oral: gavage | 90 days once/daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Butanone 78-93-3 | NOAEL 2500 ppm | inhalation | 90 days 6 hours/day, 5 days/week | rat | not specified |
| Propan-2-ol 67-63-0 | | inhalation: vapour | at least 104 w 6 h/d, 5 d/w | rat | OECD Guideline 451 (Carcinogenicity Studies) |
| Propane 74-98-6 | | inhalation: gas | 28 d 6 h/d, 7 d/w | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | | inhalation: gas | 28 d | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 2-Butoxyethanol 111-76-2 | NOAEL 0,121 mg/l | inhalation | 42 or 90 days 6 hours/day, 5 days/week | rat | not specified |
| 2-Butoxyethanol 111-76-2 | NOAEL < 69 mg/kg | oral: drinking water | 90 d continous | rat | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Reaction mass of | < 0,9 mm2/s | 20 °C | not specified | |
| ethylbenzene and xylene | | | | |
| Butanone | 0,51 mm2/s | 20 °C | ASTM Standard D7042 | |
| 78-93-3 | | | | |

SECTION 12: Ecological information

General ecological information:

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

12.1. Toxicity

Toxicity (Fish):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|-----------------------|---------------|--|--|
| Reaction mass of ethylbenzene and xylene | | 2,6 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Reaction mass of ethylbenzene and xylene | NOEC | > 1,3 mg/l | 56 d | Oncorhynchus mykiss | other guideline: |
| Butanone 78-93-3 | LC50 | 3.220 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics 68920-06-9 | LC50 | > 3 - 10 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Propan-2-ol 67-63-0 | LC50 | > 9.640 - 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | LC50 | 27,98 mg/l | 96 h | | not specified |
| 2-Butoxyethanol 111-76-2 | LC50 | 1.474 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Butoxyethanol 111-76-2 | NOEC | > 100 mg/l | 21 d | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |

Toxicity (Daphnia):

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

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--------------------------------|-------|-----------------|---------------|---------------|----------------------|
| CAS-No. | type | | | | |
| Reaction mass of ethylbenzene | IC50 | > 1 mg/l | 24 h | Daphnia magna | OECD Guideline 202 |
| and xylene | | | | | (Daphnia sp. Acute |
| • | | | | | Immobilisation Test) |
| Butanone | EC50 | 5.091 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 78-93-3 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |
| Hydrocarbons, C7-C9, n- | EC50 | > 4,6 - 10 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| alkanes, isoalkanes, cyclics | | | | | (Daphnia sp. Acute |
| 68920-06-9 | | | | | Immobilisation Test) |
| Butane, n- (< 0.1 % butadiene) | EC50 | 14,22 mg/l | 48 h | | not specified |
| 106-97-8 | | | | | |
| 2-Butoxyethanol | EC50 | 1.550 mg/l | 48 h | Daphnia magna | OECD Guideline 202 |
| 111-76-2 | | | | | (Daphnia sp. Acute |
| | | | | | Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

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

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|-------------------------------|-------|-----------|---------------|--------------------|---------------------------|
| CAS-No. | type | | | | |
| Reaction mass of ethylbenzene | NOEC | 1,17 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |
| and xylene | | | | | |
| Hydrocarbons, C7-C9, n- | NOELR | 1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| alkanes, isoalkanes, cyclics | | | | | magna, Reproduction Test) |
| 68920-06-9 | | | | | |
| Propan-2-ol | NOEC | 30 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| 67-63-0 | | | | | magna, Reproduction Test) |
| 2-Butoxyethanol | NOEC | 100 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia |
| 111-76-2 | | | | | magna, Reproduction Test) |

Toxicity (Algae):

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

| Hazardous substances CAS-No. | Value | Value | Exposure time | Species | Method |
|--|--------------|----------------|---------------|--|--|
| | type EC50 | 4,36 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Reaction mass of ethylbenzene and xylene | NOEC | 0,44 mg/l | 73 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butanone 78-93-3 | EC50 | > 1.000 mg/l | | | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics 68920-06-9 | EL50 | > 10 - 30 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics 68920-06-9 | NOELR | 10 mg/l | 72 h | Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Propan-2-ol 67-63-0 | NOEC | 1.000 mg/l | 96 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | EC50 | 7,71 mg/l | 96 h | | not specified |
| 2-Butoxyethanol 111-76-2 | EC50 | 1.840 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Butoxyethanol 111-76-2 | NOEC | 286 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------|---------------|----------------------------|--|
| Reaction mass of ethylbenzene and xylene | NOEC | 157 mg/l | 3 h | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Butanone 78-93-3 | EC 50 | > 1.000 mg/l | | | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2-Butoxyethanol 111-76-2 | EC0 | 1.000 mg/l | 30 min | | not specified |

12.2. Persistence and degradability

No data available.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|-----------------------|-----------|---------------|------------------|--|
| Reaction mass of ethylbenzene and xylene | readily biodegradable | aerobic | 87,8 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Butanone 78-93-3 | readily biodegradable | aerobic | > 60 % | | OECD 301 A - F |
| Hydrocarbons, C7-C9, n- alkanes, isoalkanes, cyclics 68920-06-9 | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Propan-2-ol 67-63-0 | readily biodegradable | aerobic | 70 - 84 % | 30 d | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |
| 2-Butoxyethanol 111-76-2 | readily biodegradable | aerobic | 73 % | 30 d | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|---------------------------------|-----------------------------------|---------------|-------------|--------------|------------------|
| Reaction mass of ethylbenzene | 25,9 | 56 d | | Oncorhynchus | other guideline: |
| and xylene | | | | mykiss | |

12.4. Mobility in soil

The product evaporates readily.

| Hazardous substances | LogPow | Temperature | Method |
|-------------------------------|--------|-------------|--|
| CAS-No. | | | |
| Reaction mass of ethylbenzene | 3,49 | 30 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC |
| and xylene | | | Method) |
| Butanone | 0,29 | | not specified |
| 78-93-3 | | | |
| Hydrocarbons, C7-C9, n- | 5,65 | 25 °C | QSAR (Quantitative Structure Activity Relationship) |
| alkanes, isoalkanes, cyclics | | | |
| 68920-06-9 | | | |
| Propan-2-ol | 0,05 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake |
| 67-63-0 | | | Flask Method) |
| 2-Butoxyethanol | 0,81 | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake |
| 111-76-2 | | | Flask Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances | PBT / vPvB |
|--|---|
| CAS-No. | |
| Reaction mass of ethylbenzene and xylene | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Butanone 78-93-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propan-2-ol 67-63-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Propane 74-98-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-Butoxyethanol 111-76-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

Waste code

14 06 03 Other solvents and solvent mixtures

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number

| ADR | 1950 |
|------|------|
| RID | 1950 |
| ADN | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

14.2. UN proper shipping name

| ADR | AEROSOLS |
|------|---------------------|
| RID | AEROSOLS |
| ADN | AEROSOLS |
| IMDG | AEROSOLS |
| IATA | Aerosols, flammable |

14.3. Transport hazard class(es)

| ADR | 2.1 |
|------|-----|
| RID | 2.1 |
| ADN | 2.1 |
| IMDG | 2.1 |
| IATA | 2.1 |

14.4. Packing group

ADR RID ADN IMDG IATA

14.5. Environmental hazards

| ADR | not applicable |
|------|----------------|
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.6. Special precautions for user

| ADR | not applicable |
|------|-----------------|
| | Tunnelcode: (D) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

VOC content (2010/75/EC)

80,9 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Further information:

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Annex - Exposure Scenarios:

Exposure Scenarios for butanone (MEK) can be downloaded under the following link: http://mymsds.henkel.com/mymsds/.547033..en.ANNEX_DE.25417830.0.DE.pdf

Alternatively they can be accessed on the internet site www.mymsds.henkel.com by entering number 547033.