



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

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TEROSON VR 105 known as Teroson Screen Cleaner 500 ML

SDS No. : 446051
V004.0

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

1.1. Product identifier

TEROSON VR 105 known as Teroson Screen Cleaner 500 ML

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

Intended use:
Cleaner

1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.
SDSinfo.Adhesive@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Aerosols

Category 1

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Signal word:

Danger

Hazard statement:

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

Precautionary statement:

P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50.DEGREE.C/122.DEGREE.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.***

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

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

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 CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---------------|--|---|------------------|
| Propan-2-ol 67-63-0 200-661-7 01-2119457558-25 | 2,5- < 10 % | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | | |
| 1-Butoxypropan-2-ol 5131-66-8 225-878-4 01-2119475527-28 | 2,5- < 10 % | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Flam. Liq. 3, H226 | | |
| Butane, n- (< 0.1 % butadiene) 106-97-8 203-448-7 01-2119474691-32 | 2,5- < 10 % | Press. Gas H280 Flam. Gas 1A, H220 | | |
| Propane 74-98-6 200-827-9 01-2119486944-21 | 1- < 2,5 % | Flam. Gas 1A, H220 Press. Gas H280 | | |
| ammonia, aqueous solution 1336-21-6 215-647-6 01-2119488876-14 | 0,1- < 0,25 % | Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Skin Corr. 1B, H314 Acute Tox. 4, Inhalation, H332 STOT SE 3, H335 | STOT SE 3; H335; C \geq 5 % ===== M acute = 1 ===== inhalation: | EU OEL |

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

| | |
|---|------------------------------------|
| 5 - 15 % contains | aliphatic hydrocarbons Perfumes |
| Allergenic fragrance ingredients \geq 100 ppm: | Limonene, Benzyl Alcohol |

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

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

Ingestion:

not relevant.

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

No data available.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust).

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**

Avoid open flames and sources of ignition.
 Ground/bond container and receiving equipment.
 Use explosion proof electric equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.

Hygiene measures:

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

Store only in the original container.
 Ensure good ventilation/extraction.

7.3. Specific end use(s)

Cleaner

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

Valid for
 Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-------|-------------------|-------------------------------------|--|-----------------|
| Propan-2-ol 67-63-0 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Propan-2-ol 67-63-0 | 200 | 500 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Butane 106-97-8 | 1.000 | 2.400 | Exposure limit(s): | 4 | TRGS 900 |
| Butane 106-97-8 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Propane 74-98-6 | 1.000 | 1.800 | Exposure limit(s): | 4 | TRGS 900 |
| Propane 74-98-6 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS] | 50 | 36 | Short Term Exposure Limit (STEL): | Indicative | ECLTV |
| Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS] | 20 | 14 | Time Weighted Average (TWA): | Indicative | ECLTV |
| Ammonia, aqueous solution 1336-21-6 | | | Short Term Exposure Classification: | Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages. | TRGS 900 |
| Ammonia, aqueous solution 1336-21-6 | 20 | 14 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------------|-----------------|----------------|-----|----------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| 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 | | |
| 1-Butoxypropan-2-ol 5131-66-8 | aqua (freshwater) | | 0,525 mg/l | | | | |
| 1-Butoxypropan-2-ol 5131-66-8 | aqua (marine water) | | 0,0525 mg/l | | | | |
| 1-Butoxypropan-2-ol 5131-66-8 | aqua (intermittent releases) | | 5,25 mg/l | | | | |
| 1-Butoxypropan-2-ol 5131-66-8 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| 1-Butoxypropan-2-ol 5131-66-8 | sediment (freshwater) | | | | 2,36 mg/kg | | |
| 1-Butoxypropan-2-ol 5131-66-8 | sediment (marine water) | | | | 0,236 mg/kg | | |
| 1-Butoxypropan-2-ol 5131-66-8 | Soil | | | | 0,16 mg/kg | | |
| ammonia, aqueous solution 1336-21-6 | aqua (freshwater) | | 0,001 mg/l | | | | |
| ammonia, aqueous solution 1336-21-6 | aqua (marine water) | | 0,001 mg/l | | | | |
| ammonia, aqueous solution 1336-21-6 | aqua (intermittent releases) | | 0,0068 mg/l | | | | |
| ammonia, aqueous solution 1336-21-6 | Soil | | | | 0,022 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|------------------------|---------|
| Propan-2-ol 67-63-0 | Workers | dermal | Long term exposure - systemic effects | | 888 mg/kg | |
| Propan-2-ol 67-63-0 | Workers | inhalation | Long term exposure - systemic effects | | 500 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | dermal | Long term exposure - systemic effects | | 319 mg/kg | |
| Propan-2-ol 67-63-0 | General population | inhalation | Long term exposure - systemic effects | | 89 mg/m ³ | |
| Propan-2-ol 67-63-0 | General population | oral | Long term exposure - systemic effects | | 26 mg/kg | |
| 1-Butoxypropan-2-ol 5131-66-8 | Workers | dermal | Long term exposure - systemic effects | | 52 mg/kg | |
| 1-Butoxypropan-2-ol 5131-66-8 | Workers | inhalation | Long term exposure - systemic effects | | 147 mg/m ³ | |
| 1-Butoxypropan-2-ol 5131-66-8 | General population | dermal | Long term exposure - systemic effects | | 22 mg/kg | |
| 1-Butoxypropan-2-ol 5131-66-8 | General population | inhalation | Long term exposure - systemic effects | | 43 mg/m ³ | |
| 1-Butoxypropan-2-ol 5131-66-8 | General population | oral | Long term exposure - systemic effects | | 12,5 mg/kg | |
| 1-Butoxypropan-2-ol 5131-66-8 | Workers | dermal | Acute/short term exposure - local effects | | 50 % | |
| 1-Butoxypropan-2-ol 5131-66-8 | Workers | dermal | Long term exposure - local effects | | 50 % | |
| 1-Butoxypropan-2-ol 5131-66-8 | General population | dermal | Acute/short term exposure - local effects | | 50 % | |
| 1-Butoxypropan-2-ol 5131-66-8 | General population | dermal | Long term exposure - local effects | | 50 % | |
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Long term exposure - systemic effects | | 47,6 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 47,6 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | inhalation | Long term exposure - local effects | | 14 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | Inhalation | Acute/short term exposure - local effects | | 36 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | Workers | dermal | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | Workers | dermal | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Long term exposure - systemic effects | | 23,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Acute/short term exposure - systemic effects | | 23,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Long term exposure - local effects | | 2,8 mg/m ³ | |
| ammonia, aqueous solution 1336-21-6 | General population | inhalation | Acute/short term exposure - local | | 7,2 mg/m ³ | |

| | | | effects | | | |
|--|--------------------|--------|--|--|-----------|--|
| ammonia, aqueous solution 1336-21-6 | General population | dermal | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | dermal | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | oral | Long term exposure - systemic effects | | 6,8 mg/kg | |
| ammonia, aqueous solution 1336-21-6 | General population | oral | Acute/short term exposure - systemic effects | | 6,8 mg/kg | |

Biological Exposure Indices:

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|--|------------|---------------------|------------------------------|---------|-------------------------------|--------|------------------------|
| Propan-2-ol 67-63-0 | acetone | Blood | Sampling time: End of shift. | 25 mg/l | DE BGW | | |
| Propan-2-ol 67-63-0 [2-PROPANOL] | acetone | Urine | Sampling time: End of shift. | 25 mg/l | DE BGW | | |

8.2. Exposure controls:

Engineering controls:

In case of aerosol forming ensure sufficient suction and ventilation.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

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:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

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

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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 | white |
| Odor | characteristic |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Initial boiling point | 100 °C (212 °F) |
| Flammability | Currently under determination |
| Explosive limits | Currently under determination |
| Flash point | -60 °C (-76 °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 | 10,6 |
| () | |
| Viscosity (kinematic) | Currently under determination |
| Solubility (qualitative) | Not miscible or difficult to mix |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure | Mixture |
| (20 °C (68 °F)) | 23 hPa |
| Density | |
| (20 °C (68 °F)) | 0,957 g/cm ³ no method / method unknown |
| Relative vapour density: | Currently under determination |
| 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

10.1. Reactivity

Oxidizers.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Temperatures over appr. 50 °C
Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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 CAS-No. | Value type | Value | Species | Method |
|----------------------------------|---------------|-------------|---------|---|
| Propan-2-ol 67-63-0 | LD50 | 5.840 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| 1-Butoxypropan-2-ol 5131-66-8 | LD50 | 3.300 mg/kg | rat | 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 CAS-No. | Value type | Value | Species | Method |
|----------------------------------|---------------|--------------|---------|---|
| Propan-2-ol 67-63-0 | LD50 | 12.870 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 1-Butoxypropan-2-ol 5131-66-8 | LD50 | 3.133 mg/kg | rat | 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 CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|--|--------------|-----------------|------------------|---------|---|
| 1-Butoxypropan-2-ol 5131-66-8 | LC50 | > 651 ppm | vapour | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | LC50 | 274200 ppm | gas | 4 h | rat | not specified |
| Propane 74-98-6 | LC50 | > 800000 ppm | gas | 15 min | rat | not specified |
| ammonia, aqueous solution 1336-21-6 | Acute toxicity estimate (ATE) | 6570 ppm | | 4 h | | Expert judgement |

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 |
|---|--------------------------|------------------|---------|---|
| Propan-2-ol 67-63-0 | slightly irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 1-Butoxypropan-2-ol 5131-66-8 | moderately irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| ammonia, aqueous solution 1336-21-6 | corrosive | 4 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|-------------|------------------|---------|--|
| Propan-2-ol 67-63-0 | Category II | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 1-Butoxypropan-2-ol 5131-66-8 | irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| ammonia, aqueous solution 1336-21-6 | corrosive | | | not specified |

Respiratory or skin sensitization:

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

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|-----------------|---------------|------------|---|
| Propan-2-ol 67-63-0 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 1-Butoxypropan-2-ol 5131-66-8 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| ammonia, aqueous solution 1336-21-6 | not sensitising | not specified | 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 CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--------------------------------------|-------------------------|---|
| 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) |
| 1-Butoxypropan-2-ol 5131-66-8 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 1-Butoxypropan-2-ol 5131-66-8 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 1-Butoxypropan-2-ol 5131-66-8 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation 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) |
| 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) |
| ammonia, aqueous solution 1336-21-6 | negative | bacterial reverse mutation assay (e.g Ames test) | not specified | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Propan-2-ol 67-63-0 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | negative | inhalation: gas | | rat | 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) |
| ammonia, aqueous solution 1336-21-6 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

Carcinogenicity

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

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|--|------------------|----------------------|--|---------|-------------|--|
| Propan-2-ol 67-63-0 | | inhalation: vapour | 104 w 6 h/d, 5 d/w | rat | male/female | OECD Guideline 451 (Carcinogenicity Studies) |
| ammonia, aqueous solution 1336-21-6 | not carcinogenic | oral: feed | 104 w daily | rat | | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

Reproductive toxicity:

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

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|----------------------------|----------------------------|---------|---|
| Propan-2-ol 67-63-0 | NOAEL P 853 mg/kg | One generation study | oral: drinking water | rat | equivalent or similar to OECD Guideline 415 (One- Generation Reproduction Toxicity Study) |
| Propan-2-ol 67-63-0 | NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg | Two generation study | oral: gavage | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| 1-Butoxypropan-2-ol 5131-66-8 | NOAEL P 300 ppm NOAEL F1 1000 ppm NOAEL F2 1000 ppm | Two generation study | inhalation: vapour | rat | OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| 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) |
| 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) |
| ammonia, aqueous solution 1336-21-6 | NOAEL P 408 mg/kg | screening | oral: unspecified | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|-----------------|----------------------------|--|---------|---|
| Propan-2-ol 67-63-0 | | inhalation: vapour | at least 104 w 6 h/d, 5 d/w | rat | OECD Guideline 451 (Carcinogenicity Studies) |
| 1-Butoxypropan-2-ol 5131-66-8 | NOAEL 350 mg/kg | oral: drinking water | 13 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 1-Butoxypropan-2-ol 5131-66-8 | NOAEL 600 ppm | inhalation | 11 d 6h/d | rat | equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| 1-Butoxypropan-2-ol 5131-66-8 | NOAEL 880 mg/kg | | 13 w 5 d/w | rat | OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |
| Butane, n- (<0.1 % butadiene) 106-97-8 | | inhalation: gas | 28 d 6 h/d | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 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) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------------|---------|
| Propan-2-ol 67-63-0 | 1,8 mm ² /s | 40 °C | ASTM Standard D7042 | |

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of 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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------------------|---------------|--|---|
| Propan-2-ol 67-63-0 | LC50 | > 9.640 - 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 1-Butoxypropan-2-ol 5131-66-8 | LC50 | 1.732 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | not specified |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | LC50 | 27,98 mg/l | 96 h | | not specified |
| ammonia, aqueous solution 1336-21-6 | LC50 | 0,16 - 1,1 mg/l | 96 h | Salmo gairdneri (new name: Oncorhynchus mykiss) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| ammonia, aqueous solution 1336-21-6 | NOEC | < 0,048 mg/l | 31 d | Channel catfish | OECD Guideline 215 (Fish, Juvenile Growth 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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|------------|---------------|---------------|---|
| 1-Butoxypropan-2-ol 5131-66-8 | EC50 | > 700 mg/l | 24 h | Daphnia magna | not specified |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | EC50 | 14,22 mg/l | 48 h | | not specified |
| ammonia, aqueous solution 1336-21-6 | EC50 | 25,4 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity (aquatic invertebrates):

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------|---------------|---------------|---|
| Propan-2-ol 67-63-0 | NOEC | 30 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| ammonia, aqueous solution 1336-21-6 | NOEC | 0,79 mg/l | 96 h | Daphnia magna | EPA OPPTS 850.1300 (Daphnid Chronic Toxicity 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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|--------------|---------------|---|---|
| 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) |
| 1-Butoxypropan-2-ol 5131-66-8 | EC50 | 1.466 mg/l | | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | EC50 | 7,71 mg/l | 96 h | | not specified |
| ammonia, aqueous solution 1336-21-6 | EC50 | > 1.000 mg/l | 72 h | Skeletonema costatum | ISO 10253 (Water quality) |
| ammonia, aqueous solution 1336-21-6 | NOEC | 1.000 mg/l | 72 h | Skeletonema costatum | ISO 10253 (Water quality) |

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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|----------------------------------|------------|--------------|---------------|------------------|--|
| Propan-2-ol 67-63-0 | EC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 1-Butoxypropan-2-ol 5131-66-8 | EC0 | 10.000 mg/l | 30 min | | not specified |

12.2. Persistence and degradability

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

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|-----------------------|-----------|---------------|---------------|--|
| Propan-2-ol 67-63-0 | readily biodegradable | aerobic | 70 - 84 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| 1-Butoxypropan-2-ol 5131-66-8 | readily biodegradable | aerobic | 80 - 90 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |
| Propane 74-98-6 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |

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 CAS-No. | LogPow | Temperature | Method |
|--|--------|-------------|--|
| Propan-2-ol 67-63-0 | 0,05 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| Butane, n- (< 0.1 % butadiene) 106-97-8 | 2,31 | 20 °C | other (measured) |
| ammonia, aqueous solution 1336-21-6 | -1,14 | | EU Method A.8 (Partition Coefficient) |

12.5. Results of PBT and vPvB assessment

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

| Hazardous substances CAS-No. | PBT / vPvB |
|--|---|
| Propan-2-ol 67-63-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 1-Butoxypropan-2-ol 5131-66-8 | 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. |
| Propane 74-98-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| ammonia, aqueous solution 1336-21-6 | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |

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:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

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.

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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 | not applicable |
| 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 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |
| VOC content (2010/75/EU) | 13,9 % |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

National regulations/information (Germany):

WGK: WGK 1: slightly hazardous to water (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

BG regulations, rules, infos:

BG data sheet: BGI 621 Solvents

Storage class according to TRGS 510: 2B

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.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H411 Toxic 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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