SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

GLASS CLEANER

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

1.1. Product identifier

Product name : GLASS CLEANER
Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*

Industrielaan 5B

B-2250 Olen

2 +32 14 25 76 40

₼ +32 14 22 02 66

info@novatio.be

*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.

Industrielaan 5B

B-2250 Olen

2 +32 14 85 97 37

♣ +32 14 85 97 38 info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.3. Other hazards

Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | lRemark | M-factors and ATE |
|-------------------------------|-----------------|-----------|---------------------------------|------------|-------------|----------------------|
| 2-butoxyethanol | 111-76-2 | C≤7% | Acute Tox. 3; H331 | (1)(2)(10) | Constituent | ATE inhalation |
| 01-2119475108-36 | 203-905-0 | | Acute Tox. 4; H302 | | | (vapour): 3 |
| | | | Skin Irrit. 2; H315 | | | mg/l |
| | | | Eye Irrit. 2; H319 | | | ATE oral: 1200 |
| | | | | | | mg/kg |

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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http://www.big.be

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1/16

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GLASS CLEANER propan-2-ol 01-2119457558-25 67-63-0 200-661-7 C≤4% Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (1)(2)(10) Constituent

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

If you feel unwell, consult a doctor/medical service.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water.

After eve contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product.

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⁽¹⁾ For H- and EUH-statements in full: see section 16

⁽²⁾ Substance with a Community workplace exposure limit

⁽¹⁰⁾ Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Keep container in a well-ventilated place. Keep out of direct sunlight. Protect against frost.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

ΕU

| Time-weighted average exposure limit 8 h (Indicative occupational | 20 ppm |
|---|---|
| exposure limit value) | |
| Time-weighted average exposure limit 8 h (Indicative occupational | 98 mg/m³ |
| exposure limit value) | |
| Short time value (Indicative occupational exposure limit value) | 50 ppm |
| Short time value (Indicative occupational exposure limit value) | 246 mg/m ³ |
| | exposure limit value) Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) Short time value (Indicative occupational exposure limit value) |

Belgium

| 2-Butoxyéthanol | Time-weighted average exposure limit 8 h | 20 ppm |
|----------------------|--|------------------------|
| | Time-weighted average exposure limit 8 h | 98 mg/m³ |
| | Short time value | 50 ppm |
| | Short time value | 246 mg/m³ |
| Alcool isopropylique | Time-weighted average exposure limit 8 h | 200 ppm |
| | Time-weighted average exposure limit 8 h | 500 mg/m ³ |
| | Short time value | 400 ppm |
| | Short time value | 1000 mg/m ³ |

The Netherlands

| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (Public occupational exposure | 20.4 ppm |
|-----------------|--|-----------|
| | limit value) | |
| | Time-weighted average exposure limit 8 h (Public occupational exposure | 100 mg/m³ |
| | limit value) | |
| | Short time value (Public occupational exposure limit value) | 50 ppm |
| | Short time value (Public occupational exposure limit value) | 246 mg/m³ |

France

| Truffec | | |
|----------------------|--|-----------------------|
| 2-Butoxyéthanol | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 10 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 49 mg/m³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 246 mg/m ³ |
| Alcool isopropylique | Short time value (VL: Valeur non réglementaire indicative) | 400 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 980 mg/m ³ |

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| Germany | | | |
|-----------------|---|---------------------|--|
| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (TRGS 900) | 10 ppm (1) | |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 49 mg/m³ (1) | |
| Propan-2-ol | Time-weighted average exposure limit 8 h (TRGS 900) | 200 ppm (2) | |

Time-weighted average exposure limit 8 h (TRGS 900)

500 mg/m³ (2)

(1) UF: 2 (I) (2) UF: 2 (II)

Austria

| Austria | | |
|--------------------------------------|--|------------------------|
| 2-Butoxyethanol | Tagesmittelwert (MAK) | 20 ppm |
| | Tagesmittelwert (MAK) | 98 mg/m³ |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 40 ppm |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 200 mg/m ³ |
| 2-Propanol Kurzzeitwert für Großguss | *) Kurzzeitwert für Großguss gilt bis 31.12.2013 | · |
| | Tagesmittelwert (MAK) | 200 ppm |
| | Tagesmittelwert (MAK) | 500 mg/m ³ |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 800 ppm |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 2000 mg/m ³ |
| 2-Propanol | Tagesmittelwert (MAK) | 200 ppm |
| | Tagesmittelwert (MAK) | 500 mg/m ³ |
| | Kurzzeitwert 15(Miw) 4x (MAK) | 800 ppm |
| | Kurzzeitwert 15(Miw) 4x (MAK) | 2000 mg/m³ |

UK

| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 25 ppm |
|-----------------|---|------------------------|
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 123 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 50 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 246 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 999 mg/m³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1250 mg/m ³ |

USA (TLV-ACGIH)

| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 20 ppm |
|-----------------|--|---------|
| 2-propanol | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 200 ppm |
| | Short time value (TLV - Adopted Value) | 400 ppm |

b) National biological limit values

If limit values are applicable and available these will be listed below.

Germany

| (nach Hydrolyse)) | , , | 150 mg/g Kreatinin | |
|----------------------|---|-----------------------|--|
| Propan-2-ol (Aceton) | Urin: expositionsende, bzw. schichtende | 25 mg/l | |
| Propan-2-ol (Aceton) | Vollblut: expositionsende, bzw. schichtende | 25 mg/l | |

UK

| 2-Butoxyethanol (butoxyacetic acid) | Urine: post shift | 240 mmol/mol | |
|-------------------------------------|-------------------|--------------|--|
| | | creatinine | |

USA (BEI-ACGIH)

| 2-buthoxyethanol (Butoxyacetic acid (BAA)) | | 200 mg/g creatinine | With hydrolysis |
|--|--|------------------------|-------------------------|
| 2-Propanol (Acetone) | Urine: end of shift at end of workweek | 40 mg/L | Background, Nonspecific |

8.1.2 Sampling methods

| <u>.z samping methous</u> | | |
|---|-------|--------|
| Product name | Test | Number |
| 2-Butoxyethanol (Alcohols IV) | NIOSH | 1403 |
| 2-Butoxyethanol (Butyl Cellosolve solvent) | OSHA | 83 |
| 2-Butoxyethanol | OSHA | 5001 |
| Butoxyacetic acid | NIOSH | 8316 |
| Butyl cellosolve (Volatile Organic compounds) | NIOSH | 2549 |
| Butyl Cellosolve | OSHA | 83 |
| Isopropanol (Volatile Organic compounds) | NIOSH | 2549 |
| Isopropyl Alcohol (Alcohols I) | NIOSH | 1400 |
| Isopropyl Alcohol | NIOSH | 3900 |

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| Product name | Test | Number |
|-------------------|------|--------|
| Isopropyl Alcohol | OSHA | 5001 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

2-butoxyethanol

| Effect level (DNEL/DMEL) | Туре | Value | Remark |
|--------------------------|---------------------------------------|------------|--------|
| DNEL | Long-term systemic effects inhalation | 98 mg/m³ | |
| | Acute systemic effects inhalation | 1091 mg/m³ | |
| | Acute local effects inhalation | 246 mg/m³ | |

propan-2-ol

| Effect level (DNEL/DMEL) | Туре | Value | Remark |
|--|-----------------------------------|-----------------------|--------|
| DNEL Long-term systemic effects inhalation | | 500 mg/m ³ | |
| | Long-term systemic effects dermal | 888 mg/kg bw/day | |

DNEL/DMEL - General population

2-butoxyethanol

| Effect level (DNEL/DMEL) | Туре | Value | Remark |
|--------------------------|---------------------------------------|-------------------|--------|
| DNEL | Long-term systemic effects inhalation | 59 mg/m³ | |
| | Acute systemic effects inhalation | 426 mg/m³ | |
| | Acute local effects inhalation | 147 mg/m³ | |
| | Long-term systemic effects oral | 6.3 mg/kg bw/day | |
| | Acute systemic effects oral | 26.7 mg/kg bw/day | |

propan-2-ol

| Effect level (DNEL/DMEL) | Туре | Value | Remark |
|--------------------------|---------------------------------------|------------------|--------|
| DNEL | Long-term systemic effects inhalation | 89 mg/m³ | |
| | Long-term systemic effects dermal | 319 mg/kg bw/day | |
| | Long-term systemic effects oral | 26 mg/kg bw/day | |

PNEC

2-butoxyethanol

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 8.8 mg/l | |
| Marine water | 0.88 mg/l | |
| Fresh water (intermittent releases) | 26.4 mg/l | |
| STP | 463 mg/l | |
| Fresh water sediment | 34.6 mg/kg sediment dw | |
| Marine water sediment | 3.46 mg/kg sediment dw | |
| Soil | 2.33 mg/kg soil dw | |
| Oral | 0.02 g/kg food | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

| | Measured breakthrough time | Thickness | Protection index | Remark |
|----------------|----------------------------|-----------|------------------|--------|
| nitrile rubber | > 480 minutes | 0.35 mm | Class 6 | |

c) Eye protection:

Eye protection not required in normal conditions.

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical form | Liquid |
|---------------------------|-------------------------------------|
| Colour | No data available on colour |
| Odour | No data available on odour |
| Odour threshold | No data available in the literature |
| Melting point | 0 °C |
| Boiling point | 82 °C - 173 °C |
| Flammability | Not classified as flammable |
| Explosion limits | 1.13 - 12 vol % |
| Flash point | 58 °C |
| Auto-ignition temperature | 230 °C |
| Decomposition temperature | No data available in the literature |
| рН | 7 |
| Kinematic viscosity | 1 mm²/s ; 40 °C |
| Dynamic viscosity | 1 mPa.s ; 20 °C |
| Solubility | Water; soluble |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | 43 hPa ; 20 °C |
| Absolute density | 995 kg/m³ ; 20 °C |
| Relative density | 1.00 ; 20 °C |
| Relative vapour density | No data available in the literature |
| Particle size | Not applicable (liquid) |

9.2. Other information

| Evaporation rate | 1.30; Butyl acetate |
|------------------|---------------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Neutral reaction.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Test results

Acute toxicity

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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2-butoxyethanol

| Route of exposure | Parameter | Method | Value | Exposure time | | | Remark |
|----------------------------------|------------|---------------------------|-----------------|---------------|-------------------------------|--------------------|-----------|
| | | | | | | determination | |
| Oral | LD50 | Equivalent to OECD 401 | 1746 mg/kg bw | | Rat (male) | Experimental value | |
| Oral | LD50 | OECD 401 | 1414 mg/kg bw | | Guinea pig (male / female) | Experimental value | |
| Dermal | LC0 | OECD 402 | > 2000 mg/kg bw | 24 h | Guinea pig (male / female) | Experimental value | |
| Inhalation (vapours) | ATE | | 3 mg/l | | | Annex VI | |
| Inhalation (saturated vapour) | Dose level | Equivalent to OECD 433 | 2.25 mg/l | 4 h | Guinea pig (male / female) | Experimental value | No effect |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | | | Remark |
|----------------------|-----------|---------------------------|----------------|---------------|------------------------|--------------------|--------|
| | | | | | | determination | |
| Oral | LD50 | Equivalent to OECD 401 | 5840 mg/kg bw | | Rat | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | 16400 ml/kg bw | 24 h | Rabbit | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 10000 ppm | - | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Route of exposure | Result | Method | Exposure time | Time point | | Value determination | Remark |
|-------------------|------------|---------------|---------------|------------------|--------|------------------------|-------------------------------|
| Eye | Irritating | OECD 405 | 24 h | 24; 48; 72 hours | Rabbit | ' | Single treatment with rinsing |
| Skin | Irritating | EU Method B.4 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

propan-2-ol

| Route of exposure | Result | Method | Exposure time | Time point | Value determination | Remark |
|-------------------|----------------|---------------------------|---------------|-------------------------------|----------------------------|----------------------------------|
| Eye | Irritating | Equivalent to OECD 405 | | 1; 2; 3; 4; 7; 10; 14 days | ' | Single treatment without rinsing |
| Skin | Not irritating | | 4 h | 4; 24; 48; 72 hours | Experimental value | |

Conclusion

Not classified as irritating to the respiratory system

Not classified as irritating to the skin

Not classified as irritating to the eyes

Respiratory or skin sensitisation

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Route of exposure | Result | Method | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|----------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | OECD 406 | | Guinea pig (male / female) | Experimental value | |

propan-2-ol

| Route of exposure | Result | Method | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|----------|----------------------------|-------------------------------|---------------------|--------|
| Dermal | Not sensitizing | OECD 406 | | Guinea pig (male / female) | Experimental value | |

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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2-butoxyethanol

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------------|-----------|---------------------------|-----------------------|--------------|--|---------------------------|---------------------|--------|
| Oral (drinking water) | NOAEL | Equivalent to OECD 408 | < 69 mg/kg bw/day | No effect | 90 days (continuous) | Rat (male) | Experimental value | |
| Oral (drinking water) | NOAEL | Equivalent to OECD 408 | < 82 mg/kg bw/day | No effect | 90 day(s) | Rat (female) | Experimental value | |
| Dermal | NOAEL | Equivalent to OECD 411 | > 150 mg/kg bw/day | No effect | (0 0.070 | Rabbit (male / female) | Experimental value | |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | < 31 ppm | No effect | 14 weeks (6h / day, 5 days / week) | Rat (female) | Experimental value | |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | 62.5 ppm | No effect | 14 weeks (6h / day, 5 days / week) | Rat (male) | Experimental value | |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | | Value determination | Remark |
|-------------------------|------------|---------------------------|----------|--|---|------------------------|------------------------|--------|
| Oral | | | | | | | Data waiving | |
| Dermal | | | | | | | Data waiving | |
| Inhalation (vapours) | NOAEC | OECD 451 | 5000 ppm | No adverse systemic effects | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | Dose level | Equivalent to OECD 403 | 5000 ppm | Central nervous system (drowsiness, dizziness) | 6 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Result | Method | Test substrate | Effect | Value determination | Remark |
|-------------------------|------------------------|--------------------------|--------|---------------------|--------|
| Negative with metabolic | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |
| activation, negative | | | | | |
| without metabolic | | | | | |
| activation | | | | | |
| Negative with metabolic | Equivalent to OECD 476 | Chinese hamster ovary | | Experimental value | |
| activation, negative | | (CHO) | | | |
| without metabolic | | | | | |
| activation | | | | | |

propan-2-ol

| Result | Method | Test substrate | Effect | Value determination | Remark |
|-------------------------|------------------------|--------------------------|-----------|---------------------|--------|
| Negative with metabolic | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |
| activation, negative | | | | | |
| without metabolic | | | | | |
| activation | | | | | |
| Negative with metabolic | Equivalent to OECD 476 | Chinese hamster ovary | No effect | Experimental value | |
| activation, negative | | (CHO) | | | |
| without metabolic | | | | | |
| activation | | | | | |

Mutagenicity (in vivo)

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|----------------------------|------------------------|-------------------|----------------|--------------|---------------------|--------|
| Negative (Intraperitoneal) | Equivalent to OECD 474 | 3 dose(s)/24-hour | Mouse (male) | No effect | Experimental value | |
| | | interval | | | | |
| nronan-2-ol | • | - | - | - | • | |

10pan-2-0

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|----------------------------|------------------------|---------------|----------------|--------------|---------------------|-----------------|
| Negative (Intraperitoneal) | Equivalent to OECD 474 | | Mouse (male / | No effect | Experimental value | Single |
| | | | female) | | | intraperitoneal |
| | | | | | | injection |

Conclusion

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Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Route of | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|------------|-----------|---------------|-----------|-----------------|-----------------|-------------|---------------------|--------|
| exposure | | | | | | | | |
| Inhalation | NOAEC | Equivalent to | > 125 ppm | No carcinogenic | 104 weeks (6h / | Rat (male / | Experimental value | |
| (vapours) | | OECD 451 | | effect | day, 5 days / | female) | | |
| | | | | | week) | | | |

propan-2-ol

| Route of | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------------|-----------|----------|----------|------------------------|---------------|------------------------|---------------------|--------|
| exposure | | | | | | | | |
| Inhalation (vapours) | NOEL | OECD 451 | 5000 ppm | No carcinogenic effect | | Rat (male / female) | Experimental value | |
| | | | | | week) | | | |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

GLASS CLEANER

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value | Remark |
|----------------------------|-----------|---------------|-----------|--------------------|---------|-----------|---------------|--------|
| | | | | | | | determination | |
| Developmental toxicity | NOAEC | Equivalent to | 200 mg/kg | 3 days (gestation, | Rat | No effect | Experimental | |
| (Oral (stomach tube)) | | OECD 414 | bw/day | daily) | | | value | |
| Maternal toxicity (Oral | NOAEL | Equivalent to | 30 mg/kg | 3 days (gestation, | Rat | No effect | Experimental | |
| (stomach tube)) | | OECD 414 | bw/day | daily) | | | value | |
| Effects on fertility (Oral | NOAEL | Fertility | 720 mg/kg | | Mouse | No effect | Experimental | |
| (drinking water)) | | Assessment | bw/day | | (male / | | value | |
| | | | | | female) | | | |

propan-2-ol

| Category | Parameter | Method | Value | Exposure time | Species | | Value determination | Remark |
|--|-----------|---------------------------|---------------------|---------------|------------------------|-----------------------|------------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | Foetus (no effect) | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | Experimental value | |
| Effects on fertility (Oral (drinking water)) | NOAEL | Equivalent to OECD 415 | 853 mg/kg bw/day | | Rat (male / female) | No effect | Experimental value | |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

GLASS CLEANER

Judgement is based on the relevant ingredients Not classified for aspiration toxicity

Toxicity other effects

GLASS CLEANER

No (test)data on the mixture available

Chronic effects from short and long-term exposure

GLASS CLEANER

No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

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SECTION 12: Ecological information

12.1. Toxicity

GLASS CLEANER

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

2-butoxyethanol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------------------|------------------------------|------------|-----------|-------------------------------------|-----------------------|---------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 1474 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EC50 | OECD 202 | 1550 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 1840 mg/l | 72 h | Pseudokirchneri ella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | OECD 201 | 286 mg/l | 72 h | Pseudokirchneri ella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | NOEC | Equivalent to OECD 204 | > 100 mg/l | 21 day(s) | Danio rerio | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 100 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value; Reproduction |
| Toxicity aquatic micro- organisms | Toxicity threshold | Equivalent to DIN 38412/8 | 700 mg/l | 16 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Nominal concentration |

propan-2-ol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------------------|-------------------------------|---------------------------|------------|----------------------------|----------------------------|---------------------|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 9640 mg/l - 10000 mg/l | 96 h | Pimephales promelas | Flow- through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | LC50 | Equivalent to OECD 202 | > 10000 mg/l | 24 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | Toxicity threshold | | 1800 mg/l | 7 day(s) | Scenedesmus quadricauda | Static system | Fresh water | Experimental value; Toxicity test |
| Long-term toxicity fish | NOELR | Petrotox computer model | > 1000 mg/l | 28 day(s) | Brachydanio rerio | | | Estimated value |
| Long-term toxicity aquatic crustacea | NOEC | | 141 mg/l | 16 day(s) | Daphnia magna | | Fresh water | Experimental value; Growth |
| Toxicity aquatic micro- organisms | Toxicity threshold | Equivalent to DIN 38412/8 | 1050 mg/l | 16 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Toxicity test |
| | EC50 | ISO 8192 | 41676 mg/l | 30 minutes | Activated sludge | | | Experimental value |

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

2-butoxyethanol

Biodegradation water

| | Method | Value | Duration | Value determination |
|---|-----------------------------------|----------------------|-----------|---------------------|
| | OECD 301B | 90 %; Carbon dioxide | 28 day(s) | Experimental value |
| Р | hototransformation air (DT50 air) | | _ | |

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|-------|-------------------|---------------------|
| AOPWIN v1.90 | 5.5 h | 1.5E6 /cm³ | QSAR |

propan-2-ol

Biodegradation water

| Method | Value | Duration | Value determination |
|---------------|--------------------------|----------|---------------------|
| EU Method C.5 | 53 %; Oxygen consumption | 5 day(s) | Experimental value |
| | | | |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|----------|------------------------|---------------------|
| AOPWIN v1.92 | 17.668 h | 1.5E6 /cm ³ | Calculated value |

Conclusion

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Water

The surfactant(s) is/are biodegradable according to Regulation (EC) No 648/2004

12.3. Bioaccumulative potential

GLASS CLEANER

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

2-butoxyethanol

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|-----------|--------|-------|-------------|---------------------|
| BASF test | | 0.81 | 25 °C | Experimental value |

propan-2-ol

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|-------|----------|---------|---------------------|
| BCF | BCFBAF v3.01 | 1015 | | | Estimated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|-----------------------------|
| | | | 25 °C | Weight of evidence approach |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

GLASS CLEANER

(log) Koc

| Parameter | Method | Value | Value determination | |
|-----------|--------|-------|---------------------|--|
| | | | No data available | |

2-butoxyethanol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-----------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.5 - 0.9 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|----------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level I | 0.31 % | 0 % | 0.01 % | 0.59 % | 99.09 % | QSAR |

propan-2-ol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------------------|---------------|---------------------|
| log Koc | ISBC DCKOCWIN VO O | 0.185 - 0.541 | Calculated value |

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

GLASS CLEANER

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

2-butoxyethanol

Groundwater

Groundwater pollutant

propan-2-ol

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

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Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 30 (separately collected fractions (except 15 01): detergents other than those mentioned in 20 01 29). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

No data available

SECTION 14: Transport information

| ad (ADR) 14.1. UN number | |
|---|---|
| Transport | Not subject |
| 14.2. UN proper shipping name | procodojece |
| 14.3. Transport hazard class(es) | |
| Hazard identification number | |
| Class | |
| Classification code | |
| | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |
| i (RID) | |
| 14. <u>1</u> . UN number | |
| Transport | Not subject |
| | inot subject |
| 14.2. UN proper shipping name 14.3. Transport hazard class(es) | |
| Hazard identification number | |
| | |
| Class | |
| Classification code | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14. <u>6. Special precautions for user</u> | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point $>$ 35 °C (and $<$ 60 °C) which do not sustain combustion are not substances of Class 3 |
| and waterways (ADN) | |
| 14.1. UN number/ID number | |
| Transport | Not subject |
| 14.2. UN proper shipping name | INOT SUBJECT |
| 14.2. ON proper snipping name 14.3. Transport hazard class(es) | |
| Class | |
| Classification code | |
| | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not sustain combustion are not substances of Class 3 |
| | |
| i (IMDG/IMSBC) | |
| | Not subject |

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| 14.2. UN proper shipping name | |
|---|--|
| 14.3. Transport hazard class(es) | |
| Class | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Marine pollutant | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Limited quantities | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not |
| | sustain combustion are not substances of Class 3 |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable, based on available data |
| :- (ICAO TI/IATA DCD) | |
| ir (ICAO-TI/IATA-DGR) | |
| 14.1. UN number/ID number | |
| Transport | Not subject |
| 14.2. UN proper shipping name | |
| 14.3. Transport hazard class(es) | |
| Class | |
| 14.4. Packing group | |
| Packing group | |
| Labels | |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | |
| Specific mention | Substances having a flash-point > 35 °C (and < 60 °C) which do not |
| | sustain combustion are not substances of Class 3 |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture <u>European legislation:</u>

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 9.86 % | |
| 98.11 g/l | |

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC, 2004/37/EC and amendments)

2-butoxyethanol

| Product name | Skin resorption |
|-----------------|-----------------|
| 2-Butoxyethanol | Skin |

Directive 2012/18/EU (Seveso III)

Threshold values under special circumstances

| Substance or category | Special circumstances | | Top tier (tonnes) | | For this substance or mixture the summation rule has to be applied for: |
|-----------------------|--|----|----------------------|------|---|
| P5b FLAMMABLE LIQUIDS | Particular processing conditions, such as high pressure or high temperature, may create major- accident hazards | 50 | 200 | None | Flammability |
| P5a FLAMMABLE LIQUIDS | Maintained at a temperature above the boiling point | 10 | 50 | None | Flammability |

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|------------------------------------|--|---|
| · 2-butoxyethanol · propan-2-ol | criteria for any of the following hazard classes | Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, |

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Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 games for one or more participants, or any article intended to be used as such, even with types A and B, 2.9, 2.10, 2.12, 2.13 categories ornamental aspects 1 and 2, 2.14 categories 1 and 2, 2.15 types A 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for to F: (b) hazard classes 3.1 to 3.6, 3.7 adverse fiscal reasons, or perfume, or both, if they: effects on sexual function and fertility or on can be used as fuel in decorative oil lamps for supply to the general public, and, development, 3.8 effects other than narcotic present an aspiration hazard and are labelled with H304. 4. Decorative oil lamps for supply to the general public shall not be placed on the market effects, 3.9 and 3.10: (c) hazard class 4.1; unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted (d) hazard class 5.1. by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. Substances classified as flammable gases propan-2-ol 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol category 1 or 2, flammable liquids categories dispensers are intended for supply to the general public for entertainment and decorative 1, 2 or 3, flammable solids category 1 or 2, purposes such as the following: substances and mixtures which, in contact metallic glitter intended mainly for decoration, with water, emit flammable gases, category 1, artificial snow and frost. 2 or 3, pyrophoric liquids category 1 or "whoopee" cushions. pyrophoric solids category 1, regardless of silly string aerosols, whether they appear in Part 3 of Annex VI to imitation excrement, that Regulation or not. horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. 2-butoxyethanol Substances falling within one or more of the Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081 propan-2-ol following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: - carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation - reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation - skin sensitiser category 1, 1A or 1B - skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 - serious eye damage category 1 or eye irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g. h. and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

National legislation Belgium GLASS CLEANER

No data available

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| <u>2-butoxyethanol</u> | |
|--|--|
| Résorption peau | 2-Butoxyéthanol; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. |
| propan-2-ol | |
| Agents cancérigènes, mutagènes et reprotoxiques et aux agents possédant des propriétés perturbant le système endocrinien (Code du bien-être au travail, Livre VI, titre 2) | alcool isopropylique; VI.2.2.; Liste des procédés au cours desquels une substance ou un mélange se dégage; Procédé à l'acide fort dans la fabrication d'alcool isopropylique. |
| National legislation The Netherlands GLASS CLEANER | |
| Waterbezwaarlijkheid | B (5); Algemene Beoordelingsmethodiek (ABM) |
| 2-butoxyethanol | |
| Huidopname (wettelijk) | 2-Butoxyethanol; H |
| National legislation France GLASS CLEANER No data available 2-butoxyethanol | |
| Risque de pénétration | 2-Butoxyéthanol; Risque de pénétration percutanée |

National legislation Germany

| Δς | | |
|----|--|--|

percutanée

| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 | | | |
|-----------------------|--|--|--|--|
| 2-butoxyethanol | | | | |
| TA-Luft | 5.2.5 | | | |
| TRGS900 - Risiko der | 2-Butoxyethanol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des | | | |
| Fruchtschädigung | biologischen Grenzwertes nicht befürchtet zu werden | | | |
| Hautresorptive Stoffe | 2-Butoxyethanol; H; Hautresorptiv | | | |
| propan-2-ol | | | | |
| TA-Luft | 5.2.5 | | | |

| TRGS900 - Risiko der | Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen |
|----------------------|---|
| | Grenzwertes nicht befürchtet zu werden |

National legislation Austria GLASS CLEANER

No data available

2-butoxyethanol

| | 2-Butoxyethanol; H |
|----------------|--------------------|
| Hautresorption | |

National legislation United Kingdom GLASS CLEANER

No data available

2-butoxyethanol

| Skin absorption | 2-Butoxyethanol: Sk |
|-----------------|---------------------|
| | |

Other relevant data GLASS CLEANER

No data available

| IARC - classification | 3; 2-butoxyethanol | | | |
|-----------------------|---------------------|--|--|--|
| TLV - Carcinogen | 2-Butoxyethanol; A3 | | | |
| propan-2-ol | | | | |
| IARC - classification | 3; Isopropanol | | | |
| TLV - Carcinogen | 2-propanol; A4 | | | |

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

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(*) INTERNAL CLASSIFICATION BY BIG

ADI Acceptable daily intake

AOEL Acceptable operator exposure level

ATE Acute Toxicity Estimate
BCF Bioconcentration Factor
BEI Biological Exposure Indices

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC10 Effect Concentration 10 %
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

GLP Good Laboratory Practice
LC0 Lethal Concentration 0 %
LC50 Lethal Concentration 50 %

LD50 Lethal Dose 50 %

LOAEC/LOAEL Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level

NOAEC/NOAEL No Observed Adverse Effect Concentration/No Observed Adverse Effect Level

NOEC/NOEL No Observed Effect Concentration/No Observed Effect Level
OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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