

SAFETY DATA SHEET

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

MULTIFOAM RV

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

1.1. Product identifier

Product name : MULTIFOAM RV
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
Degreasing agent

1.2.2 Uses advised against

No uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +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
☎ +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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|---------|------------|---|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |

2.2. Label elements



Signal word : Danger

H-statements
H222 : Extremely flammable aerosol.
H229 : Pressurised container: May burst if heated.

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

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

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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 | Remark | M-factors and ATE |
|-------------------------------------|-----------------------|----------------|---|----------------|-------------|--|
| 2-butoxyethanol 01-2119475108-36 | 111-76-2 203-905-0 | 2.5% ≤C<10% | Acute Tox. 3; H331 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 | (1)(2)(10) | Constituent | ATE inhalation (vapour): 3 mg/l ATE oral: 1200 mg/kg |
| propan-2-ol 01-2119457558-25 | 67-63-0 200-661-7 | 1%≤C<2.5% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent | |
| butane 01-2119474691-32 | 106-97-8 203-448-7 | 2.5% ≤C<10% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10)(21) | Propellant | |
| propane 01-2119486944-21 | 74-98-6 200-827-9 | 2.5% ≤C<10% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant | |
| isobutane 01-2119485395-27 | 75-28-5 200-857-2 | 0.1%≤C<1% % | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10)(21) | Propellant | |

- (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
(21) 1,3-butadiene <0.1%

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 eye 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:

EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Nausea. Disturbances of consciousness.

After skin contact:

No effects known.

After eye contact:

Redness of the eye tissue.

After ingestion:

Gastrointestinal complaints. Diarrhoea. Headache. Vomiting. Disturbances of consciousness.

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:

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Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

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

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

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. Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. 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. Protect against frost. Keep out of direct sunlight. Keep container in a well-ventilated place. Fireproof storeroom. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

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.

EU

| | | |
|-----------------|---|-----------------------|
| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 98 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 50 ppm |
| | Short time value (Indicative occupational exposure limit value) | 246 mg/m ³ |

Belgium

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| | | |
|--|--|------------------------|
| 2-Butoxyéthanol | Time-weighted average exposure limit 8 h | 20 ppm |
| | Time-weighted average exposure limit 8 h | 98 mg/m ³ |
| | Short time value | 50 ppm |
| | Short time value | 246 mg/m ³ |
| 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 |
| Butane, tous isomères: iso-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Butane, tous isomères: n-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |

The Netherlands

| | | |
|-----------------|---|-----------------------|
| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 20.4 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 100 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 50 ppm |
| | Short time value (Public occupational exposure limit value) | 246 mg/m ³ |

France

| | | |
|----------------------|--|------------------------|
| 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/m ³ |
| | 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 |
| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 800 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1900 mg/m ³ |

Germany

| | | |
|-----------------|---|------------------------|
| 2-Butoxyethanol | Time-weighted average exposure limit 8 h (TRGS 900) | 10 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 49 mg/m ³ |
| Butan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| Isobutan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (TRGS 900) | 200 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 500 mg/m ³ |

Austria

| | | |
|---|-------------------------------|------------------------|
| 2-Butoxyethanol | Tagesmittelwert (MAK) | 20 ppm |
| | Tagesmittelwert (MAK) | 98 mg/m ³ |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 40 ppm |
| | Kurzzeitwert 30(Miw) 4x (MAK) | 200 mg/m ³ |
| 2-Propanol Kurzzeitwert für Großguss | 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/m ³ |
| Butan (beide Isomeren): n-Butan (R 600) Isobutan (R 600a) | Tagesmittelwert (MAK) | 800 ppm |
| | Tagesmittelwert (MAK) | 1900 mg/m ³ |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 1600 ppm |

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|---|-------------------------------|------------------------|
| Butan (beide Isomeren): n-Butan (R 600) Isobutan (R 600a) | Kurzzeitwert 60(Mow) 3x (MAK) | 3800 mg/m ³ |
| Propan (R 290) | Tagesmittelwert (MAK) | 1000 ppm |
| | Tagesmittelwert (MAK) | 1800 mg/m ³ |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 2000 ppm |
| | Kurzzeitwert 60(Mow) 3x (MAK) | 3600 mg/m ³ |

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 |
| Butane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1450 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 750 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1810 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/m ³ |
| | 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 |
| Butane, isomers | Short time value (TLV - Adopted Value) | 1000 ppm |

b) National biological limit values

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

Germany

| | | | |
|---|---|--------------------|--|
| 2-Butoxyethanol (Butoxyessigsäure (nach Hydrolyse)) | Urin: expositionsende, bzw. schichtende bei langzeitexposition: nach mehreren vorangegangenen schichten | 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-butoxyethanol (Butoxyacetic acid (BAA)) | urine: end of shift | 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

| 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 |
| 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) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 98 mg/m ³ | |
| | Acute systemic effects inhalation | 1091 mg/m ³ | |
| | Acute local effects inhalation | 246 mg/m ³ | |

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| Effect level (DNEL/DMEL) | Type | 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) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 59 mg/m ³ | |
| | Acute systemic effects inhalation | 426 mg/m ³ | |
| | Acute local effects inhalation | 147 mg/m ³ | |
| | 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) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 89 mg/m ³ | |
| | 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

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).

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

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------|-------------------------------------|
| Physical form | Aerosol |
| Odour | Fruity odour |
| Odour threshold | No data available in the literature |
| Colour | Colourless |
| Particle size | No data available in the literature |
| Explosion limits | 1.1 - 12 vol % |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | Not applicable (aerosol) |
| Kinematic viscosity | Not applicable (aerosol) |
| Melting point | No data available in the literature |
| Boiling point | No data available in the literature |
| Relative vapour density | > 1 |

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|---------------------------|--|
| Vapour pressure | No data available in the literature |
| Solubility | Water ; soluble |
| Relative density | 0.94 ; 20 °C ; Liquid |
| Absolute density | 938 kg/m ³ ; 20 °C ; Liquid |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | Not applicable (aerosol) |
| Flash point | -97 °C |
| pH | 10.4 |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Basic 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

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

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

2-butoxyethanol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------------------|------------|------------------------|-----------------|---------------|----------------------------|---------------------|-----------|
| 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 | Species | Value determination | Remark |
|----------------------|-----------|------------------------|----------------|---------------|---------------------|---------------------|--------|
| 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 | 6 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

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2-butoxyethanol

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

Conclusion

Not classified as irritating to the skin
 Not classified as irritating to the eyes
 Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

MULTIFOAM RV

No (test)data on the mixture available
 Judgement is based on the relevant ingredients

2-butoxyethanol

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

Conclusion

Not classified as sensitizing for skin
 Not classified as sensitizing for inhalation

Specific target organ toxicity

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No (test)data on the mixture available
 Judgement is based on the relevant ingredients

2-butoxyethanol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------------------|-----------|------------------------|--------------------|-------|-----------|------------------------------------|------------------------|---------------------|
| 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 | 13 weeks (5 days / week) | 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 | Species | Value determination |
|----------------------|------------|------------------------|----------|------------------------|-----------------------------|-------------------------------------|---------------------|---------------------|
| 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)

Reason for revision: 3.2, 8, 15

Publication date: 2000-09-16

Date of revision: 2023-07-20

Revision number: 1102

BIG number: 32180

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MULTIFOAM RV

MULTIFOAM RV

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 activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Chinese hamster ovary (CHO) | | Experimental value | |

propan-2-ol

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

Mutagenicity (in vivo)

MULTIFOAM RV

No (test)data on the mixture available
Judgement is based on the relevant ingredients
2-butoxyethanol

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|------------------------|----------------------------|----------------|-------|---------------------|
| Negative (Intraperitoneal) | Equivalent to OECD 474 | 3 dose(s)/24-hour interval | Mouse (male) | | Experimental value |

propan-2-ol

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------------------------|------------------------|---------------|-----------------------|-------|---------------------|
| Negative (Intraperitoneal) | Equivalent to OECD 474 | | Mouse (male / female) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

MULTIFOAM RV

No (test)data on the mixture available
Judgement is based on the relevant ingredients
2-butoxyethanol

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

propan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|----------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOEL | OECD 451 | 5000 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

MULTIFOAM RV

No (test)data on the mixture available
Judgement is based on the relevant ingredients

MULTIFOAM RV

2-butoxyethanol

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

propan-2-ol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|------------------|---------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | 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

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

Toxicity other effects

MULTIFOAM RV

No (test)data on the mixture available

Chronic effects from short and long-term exposure

MULTIFOAM RV

No effects known.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

MULTIFOAM RV

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 | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | OECD 201 | 286 mg/l | 72 h | Pseudokirchneriella 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 |

Reason for revision: 3.2, 8, 15

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MULTIFOAM RV

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 |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|-------|------------------------|---------------------|
| AOPWIN v1.90 | 5.5 h | 1.5E6 /cm ³ | 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

Water

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

12.3. Bioaccumulative potential

MULTIFOAM RV

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 | BCFBFAF v3.01 | 1015 | | | Estimated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|-----------------------------|
| | | 0.05 | 25 °C | Weight of evidence approach |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

MULTIFOAM RV

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 | SRC PCKOCWIN v2.0 | 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

MULTIFOAM RV

Greenhouse gases

Contains component(s) included in the list of substances which may contribute to the greenhouse effect (IPCC)
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)

Groundwater

Groundwater pollutant

Water ecotoxicity pH

pH shift

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

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).

14 06 03* (waste organic solvents, refrigerants and foam/aerosol propellants: other solvents and solvent mixtures). 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. Specific treatment. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

| | |
|-----------|------|
| UN number | 1950 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|----------|
| Proper shipping name | aerosols |
|----------------------|----------|

14.3. Transport hazard class(es)

Reason for revision: 3.2, 8, 15

Publication date: 2000-09-16

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MULTIFOAM RV

| | |
|---|--|
| Hazard identification number | |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | |
|---|--|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Hazard identification number | 23 |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | |
|---|--|
| 14.1. UN number/ID number | |
| UN number/ID number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Class | 2 |
| Classification code | 5F |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

| | |
|---|----------|
| 14.1. UN number | |
| UN number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Marine pollutant | - |

Reason for revision: 3.2, 8, 15

Publication date: 2000-09-16

Date of revision: 2023-07-20

Revision number: 1102

BIG number: 32180

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MULTIFOAM RV

| | |
|---|--|
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | 190 |
| Special provisions | 277 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 381 |
| Special provisions | 63 |
| Special provisions | 959 |
| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7. Maritime transport in bulk according to IMO instruments | |
| Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | |
|--|---------------------|
| 14.1. UN number/ID number | |
| UN number/ID number | 1950 |
| 14.2. UN proper shipping name | |
| Proper shipping name | aerosols, flammable |
| 14.3. Transport hazard class(es) | |
| Class | 2.1 |
| 14.4. Packing group | |
| Packing group | |
| Labels | 2.1 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | no |
| 14.6. Special precautions for user | |
| Special provisions | A145 |
| Special provisions | A167 |
| Special provisions | A802 |
| Passenger and cargo transport | |
| Limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 16 % | |
| 146 g/l | |

2-butoxyethanol

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

Directive 2012/18/EU (Seveso III)

Threshold values under normal circumstances

| Substance or category | Low tier (tonnes) | Top tier (tonnes) | Group | For this substance or mixture the summation rule has to be applied for: |
|------------------------|-------------------|-------------------|-------|---|
| P3b FLAMMABLE AEROSOLS | 5000 (net) | 50000 (net) | None | Flammability |

Ingredients according to Regulation (EC) No 648/2004 and amendments

5-15% aliphatic hydrocarbons, perfumes, limonene

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 | Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on | 1. 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, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 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 fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, |

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MULTIFOAM RV

| | | |
|------------------------------------|---|---|
| | development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | <p>— present an aspiration hazard and are labelled with H304,</p> <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</p> <p>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:</p> <p>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”;</p> <p>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”;</p> <p>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.</p> |
| · propan-2-ol | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | <p>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:</p> <ul style="list-style-type: none"> — metallic glitter intended mainly for decoration, — artificial snow and frost, — “whoopee” cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. <p>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”.</p> <p>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.</p> <p>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.</p> |
| · 2-butoxyethanol · propan-2-ol | Substances falling within one or more of the 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. | Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081 |

National legislation Belgium

MULTIFOAM RV

No data available

2-butoxyethanol

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.

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propan-2-ol

| | |
|---|---|
| Agents cancérogènes, mutagènes et reprotoxiques (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

MULTIFOAM RV

| | |
|----------------------|---|
| Waterbezwaarlijkheid | B (3); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

2-butoxyethanol

| | |
|------------------------|--------------------|
| Huidopname (wettelijk) | 2-Butoxyethanol; H |
|------------------------|--------------------|

National legislation France

MULTIFOAM RV

No data available

2-butoxyethanol

| | |
|----------------------------------|---|
| Risque de pénétration percutanée | 2-Butoxyéthanol; Risque de pénétration percutanée |
|----------------------------------|---|

National legislation Germany

MULTIFOAM RV

| | |
|-----------------------|-------------------------------------|
| Lagerklasse (TRGS510) | 2B: Aerosolpackungen und Feuerzeuge |
|-----------------------|-------------------------------------|

| | |
|-----|--|
| WGK | 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

2-butoxyethanol

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

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

| | |
|-----------------------|-----------------------------------|
| Hautresorptive Stoffe | 2-Butoxyethanol; H; Hautresorptiv |
|-----------------------|-----------------------------------|

propan-2-ol

| | |
|---------|-------|
| TA-Luft | 5.2.5 |
|---------|-------|

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

National legislation Austria

MULTIFOAM RV

No data available

2-butoxyethanol

| | |
|-------------------------------------|--------------------|
| besondere Gefahr der Hautresorption | 2-Butoxyethanol; H |
|-------------------------------------|--------------------|

National legislation United Kingdom

MULTIFOAM RV

No data available

2-butoxyethanol

| | |
|-----------------|---------------------|
| Skin absorption | 2-Butoxyethanol; Sk |
|-----------------|---------------------|

Other relevant data

MULTIFOAM RV

No data available

2-butoxyethanol

| | |
|------------------|---------------------|
| TLV - Carcinogen | 2-Butoxyethanol; A3 |
|------------------|---------------------|

| | |
|-----------------------|--------------------|
| IARC - classification | 3; 2-butoxyethanol |
|-----------------------|--------------------|

propan-2-ol

| | |
|------------------|----------------|
| TLV - Carcinogen | 2-propanol; A4 |
|------------------|----------------|

| | |
|-----------------------|----------------|
| IARC - classification | 3; Isopropanol |
|-----------------------|----------------|

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:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.

(*) INTERNAL CLASSIFICATION BY BIG
ADI Acceptable daily intake

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MULTIFOAM RV

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| 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 |

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