

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830



STRIP OFF AEROSOL

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

1.1. Product identifier

Product name : STRIP OFF AEROSOL
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
Glue remover

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
☎ +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. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |

2.2. Label elements



Contains: acetone.

Signal word

Danger

H-statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

P-statements

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.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

<http://www.big.be>

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134-16239-701-en

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P280 Wear eye protection
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

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 |
|---|-----------------------|------------|---|------------|-------------|
| acetone 01-2119471330-49 | 67-64-1 200-662-2 | 25%<C<50% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| 2-(2-butoxyethoxy)ethanol 01-2119475104-44 | 112-34-5 203-961-6 | 3%<C<5% | Eye Irrit. 2; H319 | (1)(2)(10) | Constituent |
| dimethyl ether 01-2119472128-37 | 115-10-6 204-065-8 | 25%<C<50% | Flam. Gas 1; H220 Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant |
| n-butyl acetate 01-2119485493-29 | 123-86-4 204-658-1 | 10%<C<20% | Flam. Liq. 3; H226 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| 1-methoxy-2-propanol 01-2119457435-35 | 107-98-2 203-539-1 | 5%<C<10% | Flam. Liq. 3; H226 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| cyclohexanone 01-2119453616-35 | 108-94-1 203-631-1 | 2.5%<C<10% | Flam. Liq. 3; H226 Acute Tox. 4; H332 | (1)(2)(10) | Constituent |

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

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. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with plenty of 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: Dizziness.

After skin contact:

ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

After eye contact:

Irritation of the eye tissue.

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.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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 goggles (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air 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 heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

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 heading 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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Avoid prolonged and repeated contact with skin.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight. 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

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| | | |
|---------------------------|---|-------------------------|
| 1-Methoxypropanol-2 | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 100 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 375 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 150 ppm |
| | Short time value (Indicative occupational exposure limit value) | 568 mg/m ³ |
| 2-(2-Butoxyethoxy)ethanol | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 10 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 67.5 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 15 ppm |
| | Short time value (Indicative occupational exposure limit value) | 101.2 mg/m ³ |
| Acetone | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1210 mg/m ³ |
| Cyclohexanone | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 10 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 40.8 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 20 ppm |
| | Short time value (Indicative occupational exposure limit value) | 81.6 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 1920 mg/m ³ |
| n-Butyl acetate | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 241 mg/m ³ |
| | Short time value (Indicative occupational exposure limit value) | 150 ppm |
| | Short time value (Indicative occupational exposure limit value) | 723 mg/m ³ |

Belgium

| | | |
|---------------------------|--|-------------------------|
| 1-Méthoxy-2-propanol | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 184 mg/m ³ |
| | Short time value | 100 ppm |
| | Short time value | 369 mg/m ³ |
| 2-(2-Butoxyéthoxy)éthanol | Time-weighted average exposure limit 8 h | 10 ppm |
| | Time-weighted average exposure limit 8 h | 67.5 mg/m ³ |
| | Short time value | 15 ppm |
| | Short time value | 101.2 mg/m ³ |
| Acétate de n-butyle | Time-weighted average exposure limit 8 h | 50 ppm |
| | Time-weighted average exposure limit 8 h | 238 mg/m ³ |
| | Short time value | 150 ppm |
| | Short time value | 712 mg/m ³ |
| Acétone | Time-weighted average exposure limit 8 h | 500 ppm |
| | Time-weighted average exposure limit 8 h | 1210 mg/m ³ |
| | Short time value | 1000 ppm |
| | Short time value | 2420 mg/m ³ |
| Cyclohexanone | Time-weighted average exposure limit 8 h | 10 ppm |
| | Time-weighted average exposure limit 8 h | 40.8 mg/m ³ |
| | Short time value | 20 ppm |
| | Short time value | 81.6 mg/m ³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h | 1000 ppm |
| | Time-weighted average exposure limit 8 h | 1920 mg/m ³ |

The Netherlands

| | | |
|---------------------------|---|-----------------------|
| 1-Methoxy-2-propanol | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 100 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 375 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 150 ppm |
| | Short time value (Public occupational exposure limit value) | 563 mg/m ³ |
| 2-(2-butoxyethoxy)ethanol | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 7.4 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 50 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 15 ppm |
| | Short time value (Public occupational exposure limit value) | 100 mg/m ³ |

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| | | |
|---------------|---|------------------------|
| Aceton | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 501 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 1210 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 1002 ppm |
| | Short time value (Public occupational exposure limit value) | 2420 mg/m ³ |
| Cyclohexanon | Short time value (Public occupational exposure limit value) | 12 ppm |
| | Short time value (Public occupational exposure limit value) | 50 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 496 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 950 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 783 ppm |
| | Short time value (Public occupational exposure limit value) | 1500 mg/m ³ |

France

| | | |
|---------------------------|--|-------------------------|
| 1-Méthoxy-2-propanol | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 188 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 100 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 375 mg/m ³ |
| 2-(2-Butoxyéthoxy)éthanol | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 10 ppm |
| | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 67.5 mg/m ³ |
| | Short time value (VRI: Valeur réglementaire indicative) | 15 ppm |
| | Short time value (VRI: Valeur réglementaire indicative) | 101.2 mg/m ³ |
| Acétate de n-butyle | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 150 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 710 mg/m ³ |
| | Short time value (VL: Valeur non réglementaire indicative) | 200 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 940 mg/m ³ |
| Acétone | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 500 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 1210 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 1000 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 2420 mg/m ³ |
| Cyclohexanone | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 10 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 40.8 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 20 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 81.6 mg/m ³ |
| Oxyde de diméthyle | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative) | 1920 mg/m ³ |

Germany

| | | |
|---------------------------|---|------------------------|
| 1-Methoxy-2-propanol | Time-weighted average exposure limit 8 h (TRGS 900) | 100 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 370 mg/m ³ |
| 2-(2-Butoxyethoxy)ethanol | Time-weighted average exposure limit 8 h (TRGS 900) | 10 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 67 mg/m ³ |
| Aceton | Time-weighted average exposure limit 8 h (TRGS 900) | 500 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1200 mg/m ³ |
| Cyclohexanon | Time-weighted average exposure limit 8 h (TRGS 900) | 20 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 80 mg/m ³ |
| Dimethylether | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1900 mg/m ³ |
| n-Butylacetat | Time-weighted average exposure limit 8 h (TRGS 900) | 62 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 300 mg/m ³ |

UK

| | | |
|----------------------|---|-----------------------|
| 1-Methoxypropan-2-ol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 100 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 375 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 150 ppm |

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|---------------------------|---|-------------------------|
| 1-Methoxypropan-2-ol | Short time value (Workplace exposure limit (EH40/2005)) | 560 mg/m ³ |
| 2-(2-Butoxyethoxy)ethanol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 10 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 67.5 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 15 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 101.2 mg/m ³ |
| Acetone | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1210 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 3620 mg/m ³ |
| Butyl acetate | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 150 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 724 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 200 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 966 mg/m ³ |
| Cyclohexanone | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 10 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 41 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 20 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 82 mg/m ³ |
| Dimethyl ether | 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)) | 766 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 958 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|---|--|--------------|
| 1-Methoxy-2-propanol (PGME) | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
| | Short time value (TLV - Adopted Value) | 100 ppm |
| Acetone | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 250 ppm |
| | Short time value (TLV - Adopted Value) | 500 ppm |
| Butyl acetates, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
| | Short time value (TLV - Adopted Value) | 150 ppm |
| Cyclohexanone | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 20 ppm |
| | Short time value (TLV - Adopted Value) | 50 ppm |
| Diethylene glycol monobutyl ether (IFV): Inhalable fraction and vapor | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 10 ppm (IFV) |

b) National biological limit values

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

Germany

| | | | |
|---|---|---------|--|
| 1-Methoxypropan-2-ol (1-Methoxypropan-2-ol) | Urin: expositionsende, bzw. schichtende | 15 mg/l | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Aceton (Aceton) | Urin: expositionsende, bzw. schichtende | 80 mg/l | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |

UK

| | | | |
|------------------------------|-------------------|-----------------------|--|
| Cyclohexanone (cyclohexanol) | Urine: post shift | 2 mmol/mol creatinine | |
|------------------------------|-------------------|-----------------------|--|

USA (BEI-ACGIH)

| | | | |
|-------------------------------------|--|---------|---|
| Acetone (Acetone) | Urine: end of shift | 25 mg/L | Nonspecific |
| Cyclohexanone (1,2-cyclohexanediol) | urine: end of shift at end of workweek | 80 mg/L | Nonspecific, Semi-quantative, With hydrolysis |
| Cyclohexanone (Cyclohexanol) | urine: end of shift | 8 mg/L | Nonspecific, Semi-quantative, With hydrolysis |

8.1.2 Sampling methods

| Product name | Test | Number |
|--|-------|--------|
| 1-Methoxy-2-Propanol | OSHA | 99 |
| Acetone (ketones 1) | NIOSH | 1300 |
| Acetone (ketones I) | NIOSH | 2555 |
| Acetone (organic and inorganic gases by Extractive FTIR) | NIOSH | 3800 |
| Acetone (Volatile Organic compounds) | NIOSH | 2549 |
| ACETONE and METHYL ETHYL KETONE in urine | NIOSH | 8319 |

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| Product name | Test | Number |
|---|-------|--------|
| Acetone | OSHA | 69 |
| Butyl acetate (Volatile Organic compounds) | NIOSH | 2549 |
| Butyl Carbitol | OSHA | 2095 |
| Cyclohexanone (Ketones I) | NIOSH | 1300 |
| Cyclohexanone (Ketones I) | NIOSH | 2555 |
| Cyclohexanone (Volatile Organic compounds) | NIOSH | 2549 |
| Cyclohexanone | OSHA | 1 |
| n-Butyl Acetate (Esters I) | NIOSH | 1450 |
| n-Butyl Acetate | OSHA | 1009 |
| Propylene glycol monomethyl ether (glycol ethers) | NIOSH | 2554 |

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

acetone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1210 mg/m ³ | |
| | Acute local effects inhalation | 2420 mg/m ³ | |
| | Long-term systemic effects dermal | 186 mg/kg bw/day | |

2-(2-butoxyethoxy)ethanol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 67.5 mg/m ³ | |
| | Long-term local effects inhalation | 67.5 mg/m ³ | |
| | Acute local effects inhalation | 101.2 mg/m ³ | |
| | Long-term systemic effects dermal | 83 mg/kg bw/day | |

n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 300 mg/m ³ | |
| | Acute systemic effects inhalation | 600 mg/m ³ | |
| | Long-term local effects inhalation | 300 mg/m ³ | |
| | Acute local effects inhalation | 600 mg/m ³ | |
| | Long-term systemic effects dermal | 11 mg/kg bw/day | |
| | Acute systemic effects dermal | 11 mg/kg bw/day | |

1-methoxy-2-propanol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 369 mg/m ³ | |
| | Acute systemic effects inhalation | 553.5 mg/m ³ | |
| | Acute local effects inhalation | 553.5 mg/m ³ | |
| | Long-term systemic effects dermal | 183 mg/m ³ | |

cyclohexanone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 40 mg/m ³ | |
| | Acute systemic effects inhalation | 80 mg/m ³ | |
| | Long-term local effects inhalation | 40 mg/m ³ | |
| | Acute local effects inhalation | 80 mg/m ³ | |
| | Long-term systemic effects dermal | 4 mg/kg bw/day | |
| | Acute systemic effects dermal | 4 mg/kg bw/day | |

DNEL/DMEL - General population

acetone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 200 mg/m ³ | |
| | Long-term systemic effects dermal | 62 mg/kg bw/day | |
| | Long-term systemic effects oral | 62 mg/kg bw/day | |

2-(2-butoxyethoxy)ethanol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 40.5 mg/m ³ | |
| | Long-term local effects inhalation | 40.5 mg/m ³ | |
| | Acute local effects inhalation | 60.7 mg/m ³ | |
| | Long-term systemic effects dermal | 50 mg/kg bw/day | |
| | Long-term systemic effects oral | 5 mg/kg bw/day | |

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n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 35.7 mg/m ³ | |
| | Acute systemic effects inhalation | 300 mg/m ³ | |
| | Long-term local effects inhalation | 35.7 mg/m ³ | |
| | Acute local effects inhalation | 300 mg/m ³ | |
| | Long-term systemic effects dermal | 6 mg/kg bw/day | |
| | Acute systemic effects dermal | 6 mg/kg bw/day | |
| | Long-term systemic effects oral | 2 mg/kg bw/day | |
| | Acute systemic effects oral | 2 mg/kg bw/day | |

1-methoxy-2-propanol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 43.9 mg/m ³ | |
| | Long-term systemic effects dermal | 78 mg/kg bw/day | |
| | Long-term systemic effects oral | 33 mg/kg bw/day | |

cyclohexanone

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 10 mg/m ³ | |
| | Acute systemic effects inhalation | 20 mg/m ³ | |
| | Long-term local effects inhalation | 20 mg/m ³ | |
| | Acute local effects inhalation | 40 mg/m ³ | |
| | Long-term systemic effects dermal | 1 mg/kg bw/day | |
| | Acute systemic effects dermal | 1 mg/kg bw/day | |
| | Long-term systemic effects oral | 1.5 mg/kg bw/day | |
| | Acute systemic effects oral | 1.5 mg/kg bw/day | |

PNEC

acetone

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 10.6 mg/l | |
| Marine water | 1.06 mg/l | |
| Fresh water (intermittent releases) | 21 mg/l | |
| STP | 100 mg/l | |
| Fresh water sediment | 30.4 mg/kg sediment dw | |
| Marine water sediment | 3.04 mg/kg sediment dw | |
| Soil | 29.5 mg/kg soil dw | |

2-(2-butoxyethoxy)ethanol

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 1.1 mg/l | |
| Fresh water (intermittent releases) | 11 mg/l | |
| Marine water | 0.11 mg/l | |
| STP | 200 mg/l | |
| Fresh water sediment | 4.4 mg/kg sediment dw | |
| Marine water sediment | 0.44 mg/kg sediment dw | |
| Soil | 0.32 mg/kg soil dw | |
| Oral | 56 mg/kg food | |

n-butyl acetate

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.18 mg/l | |
| Fresh water (intermittent releases) | 0.36 mg/l | |
| Marine water | 0.018 mg/l | |
| STP | 35.6 mg/l | |
| Fresh water sediment | 0.981 mg/kg sediment dw | |
| Marine water sediment | 0.098 mg/kg sediment dw | |
| Soil | 0.09 mg/kg soil dw | |

1-methoxy-2-propanol

| Compartments | Value | Remark |
|-------------------------------------|------------------------|--------|
| Fresh water | 10 mg/l | |
| Fresh water (intermittent releases) | 100 mg/l | |
| Marine water | 1 mg/l | |
| STP | 100 mg/l | |
| Fresh water sediment | 52.3 mg/kg sediment dw | |
| Marine water sediment | 5.2 mg/kg sediment dw | |
| Soil | 4.59 mg/kg soil dw | |

STRIP OFF AEROSOL

cyclohexanone

| Compartment | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.033 mg/l | |
| Fresh water (intermittent releases) | 0.329 mg/l | |
| Marine water | 0.003 mg/l | |
| STP | 10 mg/l | |
| Fresh water sediment | 0.249 mg/kg sediment dw | |
| Marine water sediment | 0.025 mg/kg sediment dw | |
| Soil | 0.03 mg/kg soil dw | |

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. Take precautions against electrostatic charges. 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. Avoid prolonged and repeated contact with skin. Do not eat, drink or smoke during work.

a) Respiratory protection:

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

b) Hand protection:

Protective gloves against chemicals (EN 374).

| Materials | Measured breakthrough time | Thickness | Protection index | Remark |
|--------------|----------------------------|-----------|------------------|--------|
| butyl rubber | > 480 minutes | 0.7 mm | Class 6 | |

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Head/neck protection. Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See headings 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 | Acetone odour |
| Odour threshold | No data available in the literature |
| Colour | Rose |
| Particle size | Not applicable (aerosol) |
| Explosion limits | No data available in the literature |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available in the literature |
| Kinematic viscosity | No data available in the literature |
| Melting point | No data available in the literature |
| Boiling point | No data available in the literature |
| Evaporation rate | No data available in the literature |
| Relative vapour density | No data available in the literature |
| Vapour pressure | No data available in the literature |
| Solubility | Water ; insoluble ; Liquid |
| Relative density | 0.77 ; 20 °C ; Liquid |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | Not applicable (aerosol) |
| Flash point | Not applicable (aerosol) |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available in the literature |

9.2. Other information

| | |
|------------------|--|
| Absolute density | 767 kg/m ³ ; 20 °C ; Liquid |
|------------------|--|

STRIP OFF AEROSOL

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Unstable on exposure to heat.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. 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 toxicological effects

11.1.1 Test results

Acute toxicity

STRIP OFF AEROSOL

No (test) data on the mixture available

Judgement is based on the relevant ingredients
acetone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|------------------|---------------|---------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 5800 mg/kg | | Rat (female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | 20000 mg/kg | | Rabbit (male) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 15800 mg/kg bw | 24 h | Rabbit (male) | Weight of evidence | |
| Inhalation (vapours) | LC50 | Other | 76 mg/l | 4 h | Rat (female) | Weight of evidence | |

2-(2-butoxyethoxy)ethanol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-------------------------------|------------------------|----------------------------------|---------------|---------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 2410 mg/kg bw - 5530 mg/kg bw | | Mouse (male) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | 2764 mg/kg bw | | Rabbit (male) | Experimental value | |
| Inhalation (aerosol) | IRT (inhalation risk test) | BASF test | > 29 ppm | 2 h | Rat | Experimental value | |

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|--|-----------|------------------------|------------------------------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 423 | 10760 mg/kg bw - 12789 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 14112 mg/kg bw | | Rabbit (male / female) | Experimental value | |
| Inhalation (mixture of vapour and aerosol) | LC50 | OECD 403 | 0.74 mg/l | 4 h | Rat (male / female) | | |

STRIP OFF AEROSOL

1-methoxy-2-propanol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|-----------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | EU Method B.1 tris | 4016 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to EU Method B.3 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |
| Inhalation (vapours) | LC0 | Equivalent to OECD 403 | > 7000 ppm | 6 h | Rat (male / female) | Experimental value | |

cyclohexanone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|-----------|-------------------------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | BASF test | 1890 mg/kg bw - 2650 mg/kg bw | | Rat | Experimental value | |
| Dermal | | | | | | Data waiving | |
| Inhalation (vapours) | LC50 | BASF test | > 6.2 mg/l air | 4 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

STRIP OFF AEROSOL

No (test) data on the mixture available

Classification is based on the relevant ingredients

acetone

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|-------------------------|---------------|------------------|------------|---------------------|--------|
| Eye | Irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Weight of evidence | |
| Skin | Not irritating | Other | 3 day(s) | 24; 48; 72 hours | Guinea pig | Weight of evidence | |
| Inhalation | Slightly irritating | Human observation study | 20 minutes | | Human | Literature | |

2-(2-butoxyethoxy)ethanol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|----------|---------------|------------------|---------|---------------------|-------------------------------|
| Eye | Highly irritating | OECD 405 | 72 h | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment with rinsing |
| Skin | Slightly irritating | OECD 404 | 1 h | 24; 48; 72 hours | Rabbit | Experimental value | |

n-butyl acetate

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|----------------------------------|
| Eye | Not irritating | OECD 405 | | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment without rinsing |
| Dermal | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

1-methoxy-2-propanol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|-----------------------------|---------------|------------------|---------|---------------------|-----------------|
| Eye | Not irritating | Equivalent to EU Method B.5 | | 24; 48; 72 hours | Rabbit | Experimental value | Single exposure |
| Skin | Not irritating | Equivalent to EU Method B.4 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

cyclohexanone

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|--------------------------------|-------------------|----------|---------------|-----------------|----------------------|---------------------|--------|
| Not applicable (in vitro test) | Highly irritating | | 3.5 minutes | | Isolated chicken eye | Experimental value | |
| Skin | Irritating | OECD 404 | 4 h | 3 minutes; 1 hr | Rabbit | Experimental value | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

Conclusion

Causes serious eye irritation.

Not classified as irritating to the skin

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

STRIP OFF AEROSOL

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STRIP OFF AEROSOL

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|-------------------|---------------|------------------------|---------|---------------------|--------|
| Skin | Not sensitizing | Human observation | | | Human | Literature | |

2-(2-butoxyethoxy)ethanol

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

n-butyl acetate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig | Experimental value | |

1-methoxy-2-propanol

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|--|---------------|------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to EU Method B.6 | | | Guinea pig (male / female) | Experimental value | |
| Skin | Not sensitizing | Equivalent to method of Maguire (1973) | | 24; 48 hours | Guinea pig (male) | Experimental value | |

cyclohexanone

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|------------------------------|------------------------------|---------------|------------------------|------------|---------------------|--------|
| Skin | Limited positive test result | Guinea pig maximisation test | | | Guinea pig | Experimental value | |

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

STRIP OFF AEROSOL

No (test)data on the mixture available

Classification is based on the relevant ingredients

acetone

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|-------------------------|-----------|------------------------|--------------------|---------------|-----------------------|-----------------------|
| Oral | NOAEL | Equivalent to OECD 408 | 20 mg/l | | No effect | 13 week(s) | Mouse (male / female) | Experimental value |
| Inhalation (vapours) | NOAEC | | 19000 ppm | | No effect | 8 week(s) | Rat (male) | Weight of evidence |
| Inhalation (vapours) | Dose level | Human observation study | 361 ppm | Central nervous system | neurotoxic effects | 2 day(s) | Human | Epidemiological study |

2-(2-butoxyethoxy)ethanol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------------------|-----------|------------------------|--------------------------|-------|-----------------------------|---------------------------------|---------------------|---------------------|
| Oral (drinking water) | NOAEL | OECD 408 | 250 mg/kg bw/day | | No effect | 90 days (continuous) | Rat (male / female) | Experimental value |
| Dermal | NOAEL | Equivalent to OECD 411 | < 200 mg/kg bw/day | Skin | No effect | 13 weeks (daily, 5 days / week) | Rat (male / female) | Experimental value |
| Dermal | NOAEL | Equivalent to OECD 411 | > 2000 mg/kg bw/day | | No adverse systemic effects | 13 weeks (daily, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation | NOAEL | OECD 413 | 94 mg/m ³ air | Lungs | No effect | 90 days (6h / day) | Rat (male / female) | Experimental value |

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STRIP OFF AEROSOL

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------------|------------------|------------------------|-----------------------------------|---------------------------------|---------------------|---------------------|
| Oral (stomach tube) | NOAEL | Subchronic toxicity test | 125 mg/kg bw/day | | No effect | 13 week(s) | Rat (male / female) | Read-across |
| Oral (stomach tube) | LOAEL | Subchronic toxicity test | 500 mg/kg bw/day | Central nervous system | Central nervous system depression | 13 day(s) | Rat (male / female) | Read-across |
| Inhalation (vapours) | NOAEC | EPA OTS 798.2450 | 500 ppm | | No adverse systemic effects | 13 weeks (daily, 5 days / week) | Rat (male / female) | Experimental value |

1-methoxy-2-propanol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|------------------------|---------------------|-------|-----------------------------------|------------------------------------|------------------------|---------------------|
| Oral (stomach tube) | NOAEL | Equivalent to OECD 407 | 919 mg/kg bw/day | | No effect | 7 weeks (5 days / week) | Rat (male) | Experimental value |
| Oral (stomach tube) | NOAEL | Equivalent to OECD 407 | 2757 mg/kg bw/day | | Overall effects | 7 weeks (5 days / week) | Rat (male) | Experimental value |
| Dermal | NOAEL | Equivalent to OECD 410 | > 1000 mg/kg bw/day | | No effect | 3 weeks (5 days / week) | Rabbit (male / female) | Experimental value |
| Inhalation (vapours) | NOAEL | Equivalent to OECD 413 | 1000 ppm | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation | Dose level | Human observation | 1000 ppm | | Central nervous system depression | ≤ 7 h | Human | Experimental value |

cyclohexanone

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------------------|-----------|----------|------------------|-------|-----------|---------------|---------------------|---------------------|
| Oral (drinking water) | NOAEL | OECD 408 | 143 mg/kg bw/day | | No effect | 3 month(s) | Rat (male / female) | Experimental value |

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

STRIP OFF AEROSOL

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

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|--------------------------|-----------|---------------------|--------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

2-(2-butoxyethoxy)ethanol

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

n-butyl acetate

| 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 | |

STRIP OFF AEROSOL

1-methoxy-2-propanol

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|--|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Experimental value | |
| 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 lung fibroblasts (V79) | No effect | Experimental value | |

cyclohexanone

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

Mutagenicity (in vivo)

STRIP OFF AEROSOL

No (test) data on the mixture available

Judgement is based on the relevant ingredients

acetone

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|--------|---------------|-----------------------|-------|---------------------|
| Negative | | 13 week(s) | Mouse (male / female) | | Literature |

2-(2-butoxyethoxy)ethanol

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|------------------------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (stomach tube)) | Equivalent to OECD 475 | | Mouse (male / female) | | Experimental value |

n-butyl acetate

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|--------------------------------|----------|---------------|-----------------------|-------|---------------------|
| Negative (Oral (stomach tube)) | OECD 474 | | Mouse (male / female) | | Read-across |

1-methoxy-2-propanol

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

cyclohexanone

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|------------------------|-------------------|---------------------|-------|---------------------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 475 | 5 days (7h / day) | Rat (male / female) | | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

STRIP OFF AEROSOL

No (test) data on the mixture available

Judgement is based on the relevant ingredients

acetone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|--------|-------|---------------|----------------|-----------|-------|---------------------|
| Dermal | NOEL | Other | 79 mg | 51 week(s) | Mouse (female) | No effect | | Literature |

1-methoxy-2-propanol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|----------|----------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOEL | OECD 453 | 3000 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

cyclohexanone

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-----------------------|-----------|----------------------------|----------|---------------|---------------------|-----------------|-------|---------------------|
| Oral (drinking water) | LOAEL | Equivalent to EPA OPP 83-5 | 3300 ppm | 104 week(s) | Rat (male / female) | Tumor formation | | Experimental value |

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Conclusion

Not classified for carcinogenicity

Reproductive toxicity

STRIP OFF AEROSOL

No (test) data on the mixture available

Judgement is based on the relevant ingredients

acetone

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|------------------------|------------------|--|---------------------|-----------|-------|---------------------|
| Developmental toxicity | NOAEC | Equivalent to OECD 414 | 11000 ppm | 6 days (gestation, daily) - 19 days (gestation, daily) | Rat (male / female) | | | Experimental value |
| Effects on fertility | NOAEL | Other | 900 mg/kg bw/day | 13 week(s) | Rat (male) | No effect | | Literature |

2-(2-butoxyethoxy)ethanol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|----------------------------------|------------------|----------------------------|-----------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (diet)) | NOAEL | Equivalent to OECD 414 | 633 mg/kg bw/day | 21 days (gestation, daily) | Rat | No effect | | Experimental value |
| Maternal toxicity (Oral (diet)) | NOAEL | Equivalent to OECD 414 | 633 mg/kg bw/day | 21 days (gestation, daily) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (drinking water)) | NOAEL (P) | NTP continuous breeding protocol | 720 mg/kg bw/day | 14 week(s) | Mouse (male / female) | No effect | | Read-across |

n-butyl acetate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|----------|---------------|---------------------|-------------------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | LOAEC | Equivalent to OECD 414 | 1500 ppm | | Rat | Fetotoxicity | | Experimental value |
| Maternal toxicity (Inhalation (vapours)) | LOAEC | Equivalent to OECD 414 | 1500 ppm | | Rat | Maternal toxicity | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | OECD 416 | 2000 ppm | > 90 day(s) | Rat (male / female) | No effect | | Experimental value |

1-methoxy-2-propanol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|----------|--------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Inhalation) | NOAEL | Equivalent to OECD 414 | 1500 ppm | 10 days (6h / day) | Rat | No effect | | Experimental value |
| Maternal toxicity (Inhalation) | NOAEL | Equivalent to OECD 414 | 1500 ppm | 10 days (6h / day) | Rat | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEL (P) | OECD 416 | 300 ppm | | Rat (male / female) | No effect | | Experimental value |

cyclohexanone

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|------------------|---------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 500 mg/kg bw/day | 13 day(s) | Rabbit | No effect | | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | OECD 414 | 250 mg/kg bw/day | 13 day(s) | Rabbit | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 1000 ppm | | Rat (male / female) | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

STRIP OFF AEROSOL

acetone

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|--------|-------|-------|--------------------------|---------------|---------|-----------------------|
| | | | Skin | Skin dryness or cracking | | | Literature study Skin |

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STRIP OFF AEROSOL

n-butyl acetate

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|------------------|----------|-------|-----------------------|---------------|---------------------|---------------------|
| NOEC | EPA OTS 798.6050 | 1500 ppm | | Hypoactivity | 6 h | Rat (male / female) | Experimental value |
| NOAEC | EPA OTS 798.6050 | 500 ppm | | no neurotoxic effects | 13 week(s) | Rat (male / female) | Experimental value |

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

STRIP OFF AEROSOL

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

STRIP OFF AEROSOL

No (test) data on the mixture available

Judgement of the mixture is based on the relevant ingredients

acetone

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-------------|-----------|---------------------------|---------------------|------------------|---|
| Acute toxicity fishes | LC50 | EU Method C.1 | 5540 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | LC50 | Other | 12600 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | EC50 | | > 7000 mg/l | 96 h | Selenastrum capricornutum | Static system | Fresh water | Experimental value; Nominal concentration |
| Long-term toxicity aquatic crustacea | NOEC | Equivalent to OECD 211 | 2212 mg/l | 28 day(s) | Daphnia magna | Flow-through system | Fresh water | Experimental value |

2-(2-butoxyethoxy)ethanol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-------------|------------|-------------------------|---------------|------------------|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 1300 mg/l | 96 h | Lepomis macrochirus | Static system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | EU Method C.2 | > 100 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | > 100 mg/l | 96 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Nominal concentration |
| | NOEC | OECD 201 | ≥ 100 mg/l | 96 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |
| Toxicity aquatic micro-organisms | EC10 | Equivalent to OECD 209 | > 1995 mg/l | 30 minutes | Activated sludge | Static system | Fresh water | Experimental value; Respiration |

STRIP OFF AEROSOL

n-butyl acetate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-----------|-----------|---------------------------------|---------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 18 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | Equivalent to OECD 202 | 44 mg/l | 48 h | Daphnia sp. | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | 397 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across; GLP |
| | NOEC | OECD 201 | 196 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across; Growth rate |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 23.2 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Read-across; Reproduction |
| Toxicity aquatic micro-organisms | | | | | | | | Growth |

| | Parameter | Method | Value | Duration | Species | Value determination |
|-----------------------------|-----------|------------------------|----------------------|-----------|----------------|---------------------|
| Toxicity terrestrial plants | EC50 | Equivalent to OECD 208 | > 1000 mg/kg soil dw | 14 day(s) | Lactuca sativa | Experimental value |

1-methoxy-2-propanol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|-------------------------|----------|---------------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | ≥ 1000 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | LC50 | ESR-ES-15 | 21100 mg/l - 25900 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | ErC50 | | > 1000 mg/l | 7 day(s) | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity aquatic micro-organisms | IC50 | OECD 209 | > 1000 mg/l | 3 h | Pseudomonas fluorescens | Static system | Fresh water | Experimental value; GLP |

cyclohexanone

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|---------------------|------------|-------------------------|---------------------|------------------|---------------------------------|
| Acute toxicity fishes | LC50 | US EPA | 527 mg/l - 732 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | OECD 202 | > 100 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Behaviour |
| Toxicity algae and other aquatic plants | ErC50 | OECD 201 | > 100 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Read-across; GLP |
| | NOEC | OECD 201 | ≥ 100 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |
| Toxicity aquatic micro-organisms | EC50 | OECD 209 | > 1000 mg/l | 30 minutes | Activated sludge | Static system | Fresh water | Experimental value; Respiration |

Conclusion

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

12.2. Persistence and degradability

acetone

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------|-----------|---------------------|
| OECD 301B | 90.9 % | 28 day(s) | Experimental value |

2-(2-butoxyethoxy)ethanol

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301C | 85 %; Oxygen consumption | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------|-------|----------------------|---------------------|
| AOPWIN | 11 h | 5E5 /cm ³ | QSAR |

n-butyl acetate

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301D | 83 %; Oxygen consumption | 28 day(s) | Experimental value |

STRIP OFF AEROSOL

1-methoxy-2-propanol

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301E | 96 %; GLP | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|---------|------------------------|---------------------|
| AOPWIN v1.92 | 7.781 h | 1.5E6 /cm ³ | Calculated value |

Half-life soil (t1/2 soil)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|----------|------------------------------------|---------------------|
| | 1 day(s) | | Literature study |

cyclohexanone

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|----------------------------------|-----------|---------------------|
| OECD 301F | 90 % - 100 %; Oxygen consumption | 28 day(s) | Experimental value |

Biodegradation soil

| Method | Value | Duration | Value determination |
|--------|-------|----------|---------------------|
| | | | Data waiving |

Half-life water (t1/2 water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|-------|------------------------------------|---------------------|
| | | | Data waiving |

Conclusion

Water

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

STRIP OFF AEROSOL

Log Kow

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

acetone

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| BCF | BCFWIN | 3 | | | Read-across |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | -0.23 | | Test data |

2-(2-butoxyethoxy)ethanol

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| | | | | | Data waiving |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 | | 1 | 20 °C | Experimental value |

n-butyl acetate

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 117 | | 2.3 | 25 °C | Experimental value |

1-methoxy-2-propanol

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 117 | | < 1 | 20 °C | Experimental value |

cyclohexanone

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 107 | | 0.86 | 25 °C | Experimental value |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

STRIP OFF AEROSOL

2-(2-butoxyethoxy)ethanol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| | | | Data waiving |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|----------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level I | 0.01 % | 0 % | 0.01 % | 0.32 % | 99.66 % | QSAR |

n-butyl acetate

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|---------------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 1.268 - 1.844 | Calculated value |

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|-----------------------------|--------|-------------|--------|---------------------|
| 28.5 Pa.m ³ /mol | | 25 °C | | Experimental value |

1-methoxy-2-propanol

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 0.152 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|--------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| | 9.41 % | 0 % | 0.01 % | 0.01 % | 90.58 % | Experimental value |

cyclohexanone

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v1.66 | 1.18 | 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. Other adverse effects

STRIP OFF AEROSOL

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)

Groundwater

Groundwater pollutant

2-(2-butoxyethoxy)ethanol

Groundwater

Groundwater pollutant

n-butyl acetate

Groundwater

Groundwater pollutant

1-methoxy-2-propanol

Groundwater

Groundwater pollutant

cyclohexanone

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).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Reason for revision: 3; 4; 8; 15

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Date of revision: 2020-05-22

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Remove waste in accordance with local and/or national regulations. 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. Specific treatment. 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) | |
| 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 | |
| UN 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 |

STRIP OFF AEROSOL

| | |
|--------------------|--|
| 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 | - |
| 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. Transport in bulk according to Annex II of Marpol and the IBC Code | |
| Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | |
|--|---------------------|
| 14.1. UN number | |
| UN 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 |
|-------------|--------|
| 96.4 % | |
| 749.8 g/l | |

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

1-methoxy-2-propanol

| Product name | Skin resorption |
|---------------------|-----------------|
| 1-Methoxypropanol-2 | Skin |

cyclohexanone

| Product name | Skin resorption |
|---------------|-----------------|
| Cyclohexanone | Skin |

Reason for revision: 3; 4; 8; 15

Publication date: 2000-08-29

Date of revision: 2020-05-22

Revision number: 0402

Product number: 33063

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

<5% non-ionic surfactants, <5% aliphatic hydrocarbons, methylchloroisothiazolinone

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 |
|--|---|---|
| <ul style="list-style-type: none"> · acetone · 2-(2-butoxyethoxy)ethanol · n-butyl acetate · 1-methoxy-2-propanol · cyclohexanone | <p>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:</p> <p>(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;</p> <p>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p> | <ol style="list-style-type: none"> 1. Shall not be used in: <ul style="list-style-type: none"> — 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: <ul style="list-style-type: none"> — can be used as fuel in decorative oil lamps for supply to the general public, and, — 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 unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted 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: <ol style="list-style-type: none"> 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. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| <ul style="list-style-type: none"> · acetone · n-butyl acetate · 1-methoxy-2-propanol · cyclohexanone | <p>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> | <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopie" cushions, — silly string aerosols, — imitation excrement, — 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: <p>"For professional users only".</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. 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. |
| <ul style="list-style-type: none"> · 2-(2-butoxyethoxy)ethanol | <p>2-(2-butoxyethoxy)ethanol (DEGBE)</p> | <ol style="list-style-type: none"> 1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight. 2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows: "Do not use in paint spraying equipment". |

National legislation Belgium

STRIP OFF AEROSOL

No data available

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Date of revision: 2020-05-22

Revision number: 0402

Product number: 33063

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1-methoxy-2-propanol

| | |
|-----------------|---|
| Résorption peau | 1-Méthoxy-2-propanol; 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. |
|-----------------|---|

cyclohexanone

| | |
|-----------------|--|
| Résorption peau | Cyclohexanone; 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. |
|-----------------|--|

National legislation The Netherlands

STRIP OFF AEROSOL

| | |
|----------------------|---|
| Waterbezwaarlijkheid | B (4); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

2-(2-butoxyethoxy)ethanol

| | |
|------------------------|------------------------------|
| Huidopname (wettelijk) | 2-(2-butoxyethoxy)ethanol; H |
|------------------------|------------------------------|

1-methoxy-2-propanol

| | |
|------------------------|-------------------------|
| Huidopname (wettelijk) | 1-Methoxy-2-propanol; H |
|------------------------|-------------------------|

cyclohexanone

| | |
|------------------------|-----------------|
| Huidopname (wettelijk) | Cyclohexanon; H |
|------------------------|-----------------|

National legislation France

STRIP OFF AEROSOL

No data available

1-methoxy-2-propanol

| | |
|----------------------------------|--------------------------|
| Risque de pénétration percutanée | 1-Méthoxy-2-propanol; PP |
|----------------------------------|--------------------------|

National legislation Germany

STRIP OFF AEROSOL

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

acetone

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

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

2-(2-butoxyethoxy)ethanol

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

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

n-butyl acetate

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

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

1-methoxy-2-propanol

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

| | |
|---------------------------------------|---|
| TRGS900 - Risiko der Fruchtschädigung | 1-Methoxy-2-propanol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden |
|---------------------------------------|---|

cyclohexanone

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

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

| | |
|-----------------------|--------------------------------|
| Hautresorptive Stoffe | Cyclohexanon; H; Hautresorptiv |
|-----------------------|--------------------------------|

National legislation United Kingdom

STRIP OFF AEROSOL

No data available

1-methoxy-2-propanol

| | |
|-----------------|--------------------------|
| Skin absorption | 1-Methoxypropan-2-ol; Sk |
|-----------------|--------------------------|

cyclohexanone

| | |
|-----------------|-------------------|
| Skin absorption | Cyclohexanone; Sk |
|-----------------|-------------------|

Other relevant data

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No data available

acetone

| | |
|------------------|-------------|
| TLV - Carcinogen | Acetone; A4 |
|------------------|-------------|

1-methoxy-2-propanol

| | |
|------------------|---------------------------------|
| TLV - Carcinogen | 1-Methoxy-2-propanol (PGME); A4 |
|------------------|---------------------------------|

cyclohexanone

| | |
|-----------------------|------------------|
| IARC - classification | 3; Cyclohexanone |
|-----------------------|------------------|

| | |
|-----------------------|---|
| TLV - Skin absorption | Cyclohexanone; Skin; Danger of cutaneous absorption |
|-----------------------|---|

| | |
|------------------|-------------------|
| TLV - Carcinogen | Cyclohexanone; A3 |
|------------------|-------------------|

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

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SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| Erc50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| 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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