

SAFETY DATA SHEET

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



PT7

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

1.1. Product identifier

Product name : PT7
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

Primer

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

TEC7*
Industrielaan 5B
B-2250 Olen
+32 14 85 97 37
+32 14 85 97 38
info@tec7.be

*TEC7 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
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info@novatech.be

1.4. Emergency telephone number

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

+32 14 58 45 45 (BIG)

Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2166 (Pucblie 8 am- 10 pm)

Ireland - Beaumont Hospital, Dublin (NPIC): +353 1 809 2566 (Professionals)

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. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2. Label elements



Contains: hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane; n-butyl acetate.

Signal word Danger

H-statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

P-statements

P101 If medical advice is needed, have product container or label at hand.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
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<http://www.big.be>

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Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Revision number: 0600 (supersedes revision 0501 of 2025-10-01)

Publication date: 2010-12-08

Date of revision: 2025-12-26

BIG number: 50486

1 / 17

PT7

| | |
|---------------------------------|--|
| 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. |
| P280 | Wear protective gloves, protective clothing and eye protection/face protection. |
| P405 | Store locked up. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulation. |
| Supplemental information | |
| EUH208 | Contains: p-tert-butylphenyl 1-(2,3-epoxy)propyl ether. May produce an allergic reaction. |

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 List No | Conc. (C) | Classification according to CLP | Note | Remark | M-factors and ATE |
|--|----------------------------|---------------|--|------------|-------------|----------------------|
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane 01-2119475514-35 | 921-024-6 | 25% ≤C<50% | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(2)(10) | Constituent | |
| dimethyl ether 01-2119472128-37 | 115-10-6 204-065-8 | 25% ≤C<50% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant | |
| n-butyl acetate 01-2119485493-29 | 123-86-4 204-658-1 | 10% ≤C<25% | Flam. Liq. 3; H226 STOT SE 3; H336 EUH066 | (1)(2)(10) | Constituent | |
| p-tert-butylphenyl 1-(2,3-epoxy)propyl ether | 3101-60-8 221-453-2 | 0.1%<C<1% | Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 | (1)(10) | Constituent | |

(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

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

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 (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:

Dizziness. Drowsiness.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

No effects known.

After ingestion:

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

Revision number: 0600

BIG number: 50486

2 / 17

PT7

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: 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: persistant risk of physical explosion. Take account of environmentally hazardous firefighting water.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. 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. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. 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. 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 strict hygiene. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

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

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

| | | |
|-----------------|---|------------------------|
| 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

| | | |
|--|--|------------------------|
| Acétate de butyle, tous isomères: n-, iso, sec, tert | 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 |
| 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

| | | |
|----------------|---|------------------------|
| Dimethylether | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 495 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) | 781 ppm |
| | Short time value (Public occupational exposure limit value) | 1500 mg/m ³ |
| n-Butylacetaat | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 241 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 150 ppm |
| | Short time value (Public occupational exposure limit value) | 723 mg/m ³ |

France

| | | |
|--|--|----------------------------|
| Acétate de n-butyle | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 50 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 241 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 150 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 723 mg/m ³ |
| Hydrocarbures en C6-C12 (ensemble des) | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1000 mg/m ³ (1) |
| | Short time value (VL: Valeur non réglementaire indicative) | 1500 mg/m ³ (1) |
| <i>Les valeurs spécifiques fixées pour les hydrocarbures nommément désignés dans la liste restent valable simultanément. Une valeur d'objectif de 500 mg/m³ avait été prévue par la circulaire du 12 juillet 1993, elle devait être rééξaminée en 1995 mais ne l'a pas été.</i> | | |
| 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 |

(1) vapeurs

Germany

| | | |
|--|---|----------------------------|
| Dimethylether | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm (1) |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1900 mg/m ³ (1) |
| Kohlenwasserstoffgemische, Verwendung als Lösemittel (Lösemittelkohlenwasserstoffe), additiv-frei: C6-C8 Aliphaten | Time-weighted average exposure limit 8 h (TRGS 900) | 700 mg/m ³ (2) |
| n-Butylacetat | Time-weighted average exposure limit 8 h (TRGS 900) | 300 mg/m ³ (3) |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 62 ppm (3) |
| p-tert-Butylphenylglycidylether | <i>Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen.</i> | |

(1) UF: 8 (II)

PT7

(2) Vgl. Nummer 2.9 Anwendung und Geltungsbereich der Arbeitsplatzgrenzwerte für Kohlenwasserstoffgemische; UF: 2 (II)
 (3) UF: 2 (I)

UK

| | | |
|----------------|---|-----------------------|
| 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 |
| 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 |

Ireland

| | | |
|-----------------|---|------------------------|
| Dimethyl ether | Time-weighted average exposure limit 8 h (Binding occupational exposure limit values) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (Binding occupational exposure limit values) | 1920 mg/m ³ |
| n-Butyl acetate | Time-weighted average exposure limit 8 h (Binding occupational exposure limit values) | 50 ppm |
| | Time-weighted average exposure limit 8 h (Binding occupational exposure limit values) | 241 mg/m ³ |
| | Short time value (Binding occupational exposure limit values) | 150 ppm |
| | Short time value (Binding occupational exposure limit values) | 723 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|-----------------------------|--|----------|
| Butyl acetates, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |
| | Short time value (TLV - Adopted Value) | 150 ppm |
| Dimethyl Ether | Time-weighted average exposure limit 8 h (WEEL) | 1000 ppm |

b) National biological limit values

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

8.1.2 Sampling methods

| Product name | Test | Number |
|--|-------|--------|
| Butyl acetate (Volatile Organic compounds) | NIOSH | 2549 |
| n-Butyl Acetate (Esters I) | NIOSH | 1450 |
| n-Butyl Acetate | OSHA | 1009 |
| n-Butyl Acetate | OSHA | 5000 |

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

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2035 mg/m ³ | |
| | Long-term systemic effects dermal | 773 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 | |

DNEL/DMEL - General population

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 608 mg/m ³ | |
| | Long-term systemic effects dermal | 699 mg/kg bw/day | |
| | Long-term systemic effects oral | 699 mg/kg bw/day | |

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

PT7

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 | |

PNEC

n-butyl acetate

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.18 mg/l | |
| Marine water | 0.018 mg/l | |
| Fresh water (intermittent releases) | 0.36 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 | |

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 strict hygiene. 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 | 0.5 mm | Class 6 | |

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

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

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 |
| Colour | Variable in colour, depending on the composition |
| Odour | Characteristic odour |
| Odour threshold | No data available in the literature |
| Melting point | Not applicable (aerosol) |
| Boiling point | No data available in the literature |
| Flammability | Extremely flammable aerosol. |
| Explosion limits | 0.6 - 26.2 vol % ; Propellant |
| Flash point | Not applicable (aerosol) |
| Auto-ignition temperature | Not applicable (aerosol) |
| Decomposition temperature | No data available in the literature |
| pH | Not applicable (non-polar/aprotic) |
| Kinematic viscosity | ≤ 20.5 mm ² /s ; 40 °C ; Liquid |
| Dynamic viscosity | Not applicable (aerosol) |
| Solubility | Water ; insoluble ; Liquid |
| Log Kow | Not applicable (mixture) |
| Vapour pressure | 5200 hPa ; 20 °C ; Propellant |
| Absolute density | 729 kg/m ³ ; 20 °C ; Liquid |
| Relative density | 0.73 ; 20 °C ; Liquid |
| Relative vapour density | No data available in the literature |
| Particle size | Not applicable (aerosol) |

PT7

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.

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

11.1.1 Test results

Acute toxicity

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|--------|-------------------------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | | > 5840 mg/kg bw | | Rat | Read-across | |
| Dermal | LD50 | | 2800 mg/kg bw - 3100 mg/kg bw | 24 h | Rat (male / female) | Read-across | |
| Inhalation (vapours) | LC50 | | > 25.2 mg/l | 4 h | Rat (male / female) | 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 | 24 h | Rabbit (male / female) | Experimental value | |
| Inhalation (vapours) | LC50 | OECD 403 | > 21 mg/l | 4 h | Rat (male / female) | Experimental value | |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|----------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | OECD 425 | > 2000 mg/kg bw | | Rat (female) | Experimental value | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | 24 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Not irritating | | | 24; 48; 72 hours | Rabbit | Read-across | |
| Skin | Irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

PT7

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 |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------------------|--------|---------------|------------|---------|---------------------|--------|
| Eye | Irritating; category 2 | | | | | Literature study | |
| Skin | Irritating; category 2 | | | | | Literature study | |

Conclusion

Causes skin irritation.
Not classified as irritating to the respiratory system
Not classified as irritating to the eyes

Respiratory or skin sensitisation

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| 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) | Read-across | |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-------------|----------|---------------|------------------------|----------------|---------------------|--------|
| Skin | Sensitizing | OECD 429 | | | Mouse (female) | Experimental value | |

Conclusion

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

Specific target organ toxicity

PT7

No (test)data on the mixture available

Classification is based on the relevant ingredients
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------------------|--|-------------------|------------|---------------------|--------|
| Inhalation (vapours) | NOAEC | Subacute toxicity test | 14000 mg/m ³ air | No neurotoxic effects | 3 days (8h / day) | Rat (male) | Experimental value | |
| Inhalation | | | STOT SE cat.3 | Central nervous system (drowsiness, dizziness) | | | Literature study | |

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------|------------------|--|---------------------------------|---------------------|---------------------|--------|
| Oral (stomach tube) | NOAEL | EPA OTS 798.2650 | 125 mg/kg bw/day | No effect | 13 weeks (daily) | Rat (male / female) | Read-across | |
| Oral (stomach tube) | LOAEL | EPA OTS 798.2650 | 500 mg/kg bw/day | Central nervous system (central nervous system depression) | 13 weeks (daily) | 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 | |

PT7

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|---------------------|-----------|----------|------------------|--------------|--------------------|---------------------|---------------------|--------|
| Oral (stomach tube) | NOAEL | OECD 408 | 100 mg/kg bw/day | No effect | 90 days (1x / day) | Rat (male / female) | Experimental value | |

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|---------------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S. typhimurium and E. coli) | No effect | Read-across | |
| Negative | Equivalent to OECD 473 | Rat liver cells | No effect | Read-across | |

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 | |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---------------------------------------|------------------------|-----------------------------|------------------------|---------------------|--------|
| Positive without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | Mutagenic | Experimental value | |
| Positive without metabolic activation | OECD 473 | Chinese hamster ovary (CHO) | Chromosome aberrations | Experimental value | |

Mutagenicity (in vivo)

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|---------------------------------|------------------------|-----------------------------------|---------------------|--------------|---------------------|--------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 478 | 8 weeks (6h / day, 5 days / week) | Rat (male / female) | No effect | Read-across | |

n-butyl acetate

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|--------------------------------|----------|---------------|-----------------------|--------------|---------------------|------------------|
| Negative (Oral (stomach tube)) | OECD 474 | | Mouse (male / female) | No effect | Read-across | Single treatment |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Result | Method | Exposure time | Test substrate | Organ/Effect | Value determination | Remark |
|--------------------------------|----------|-------------------|---------------------|--------------|---------------------|--------|
| Negative (Oral (stomach tube)) | OECD 489 | 3 days (1x / day) | Rat (male / female) | No effect | Experimental value | |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

PT7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

PT7

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|---|-----------|------------------------------|----------|--------------------|---------|-----------|---------------------|--------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Developmental toxicity study | 1200 ppm | 10 days (6h / day) | Rat | No effect | Read-across | |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Developmental toxicity study | 1200 ppm | 10 days (6h / day) | Rat | No effect | Read-across | |

n-butyl acetate

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|---|-----------|------------------------|----------|---------------|---------------------|-------------------|---------------------|--------|
| 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 | |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| Category | Parameter | Method | Value | Exposure time | Species | Effect | Value determination | Remark |
|--|-----------|----------|------------------|--------------------|---------|--------------------|---------------------|--------|
| Developmental toxicity (Oral (stomach tube)) | NOEL | OECD 414 | 150 mg/kg bw/day | 15 days (1x / day) | Rat | Foetus (no effect) | Experimental value | |
| Maternal toxicity (Oral (stomach tube)) | NOEL | OECD 414 | 150 mg/kg bw/day | 15 days (1x / day) | Rat | No effect | Experimental value | |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

PT7

Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

Toxicity other effects

PT7

No (test)data on the mixture available

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Organ/Effect | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------|----------|-------------------------|---------------|---------------------|---------------------|--------|
| | 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 | |

Chronic effects from short and long-term exposure

PT7

Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

PT7

No (test)data on the mixture available

Classification is based on the relevant ingredients

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

PT7

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|----------------------------|-----------|---------------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LL50 | OECD 203 | 11 mg/l WAF | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | OECD 202 | 3 mg/l WAF | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | EL50 | OECD 201 | 30 mg/l WAF - 100 mg/l WAF | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity fish | EL10 | | 0.64 mg/l | 60 day(s) | Oncorhynchus mykiss | | | QSAR; Estimated value |
| Long-term toxicity aquatic crustacea | NOEC | OECD 211 | 0.17 mg/l WAF | 21 day(s) | Daphnia magna | Static system | Fresh water | Read-across; GLP |
| Toxicity aquatic micro-organisms | EL50 | | > 1000 mg/l | 15 h | Activated sludge | | Fresh water | QSAR; Estimated value |

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 | IC50 | TETRATOX assay | 356 mg/l | 40 h | Tetrahymena pyriformis | Static system | Fresh water | Experimental value; Growth |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|----------|----------|---------------------------------|---------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 7.5 mg/l | 96 h | Oncorhynchus mykiss | Static system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | EC50 | OECD 202 | 68 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | 9 mg/l | 72 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Cell numbers |

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 98 %; Oxygen consumption | 28 day(s) | Experimental value |

n-butyl acetate

Biodegradation water

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

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|------------|----------------------|---------------------|
| AOPWIN v1.92 | 3.3 day(s) | 5E5 /cm ³ | Experimental value |

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|---------------------------|-----------|---------------------|
| OECD 301D | 1.1 %; Oxygen consumption | 28 day(s) | Experimental value |

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

PT7

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

Revision number: 0600

BIG number: 50486

11 / 17

PT7

Log Kow

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

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|---------|-------------|---------------------|
| KOWWIN | | 3 - 3.8 | 20 °C | QSAR |

n-butyl acetate

Log Kow

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

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|----------|--------|-------|-------------|---------------------|
| OECD 107 | | 3.6 | 20 °C | Experimental value |

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|------------|---------------------|
| Koc | | 325 - 1453 | QSAR |
| log Koc | | 2.5 - 3.2 | Calculated value |

n-butyl acetate

(log) Koc

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

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|----------|-------|---------------------|
| log Koc | OECD 121 | 2.9 | Experimental 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

PMT conclusion

Does not contain component(s) that meet(s) the criteria of PMT and/or vPvM as listed in Annex I of Regulation (EC) No 1272/2008

PT7

Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Groundwater

Groundwater pollutant

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

n-butyl acetate

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Groundwater

Groundwater pollutant

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether**Greenhouse gases**

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

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).

08 01 11* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Specific treatment. 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. 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 or ID 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 | yes |
|--|-----|

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 or ID 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 | yes |
|--|-----|

14.6. Special precautions for user

| | |
|--------------------|-----|
| Special provisions | 190 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 625 |

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

PT7

| | |
|--------------------|--|
| 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 or 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 | yes |
|--|-----|

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 or ID 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 | P |
|------------------|---|

| | |
|--|-----|
| Environmentally hazardous substance mark | yes |
|--|-----|

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 or 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 | yes |
|--|-----|

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 |
|-------------|--------|
| 98.2 % | |
| 715.9 g/l | |

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 |
| E2 Hazardous to the Aquatic Environment in Category Chronic 2 | 200 | 500 | None | Eco-toxicity |

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

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"> · hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane · n-butyl acetate · p-tert-butylphenyl 1-(2,3-epoxy)propyl ether | <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> <p>1. Shall not be used in:</p> <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, <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>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:</p> <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, <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> <ul 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. |
| <ul style="list-style-type: none"> · hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane · n-butyl acetate | <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> <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:</p> <p>"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> |

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

PT7

National legislation Belgium

PT7

No data available

National legislation The Netherlands

PT7

| | |
|--------------------|---|
| Waterbezuurlijkhed | B (2); Algemene Beoordelingsmethodiek (ABM) |
|--------------------|---|

National legislation France

PT7

No data available

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

| | |
|-----------------------|--|
| Catégorie cancérogène | Hydrocarbures en C6-C12 (ensemble des) |
| Catégorie mutagène | Hydrocarbures en C6-C12 (ensemble des) |

National legislation Germany

PT7

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

| | |
|-----|--|
| WGK | 2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

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

n-butyl acetate

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

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

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

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

National legislation Austria

PT7

No data available

National legislation United Kingdom

PT7

No data available

National legislation Ireland

PT7

No data available

Other relevant data

PT7

No data available

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.
H226 Flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains a sensitising substance. May produce an allergic reaction.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BEI | Biological Exposure Indices |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC10 | Effect Concentration 10 % |

Reason for revision: 1; 2; 3; 7; 8; 9; 11; 12; 15; 16

Publication date: 2010-12-08

Date of revision: 2025-12-26

Revision number: 0600

BIG number: 50486

16 / 17

PT7

| | |
|-------------|--|
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| GLP | Good Laboratory Practice |
| HS | Harmonized System of Nomenclature, a standardized international system for classifying goods under the Harmonized System Convention, as drawn up by the World Customs Organization Secretariat |
| LCO | 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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