

SAFETY DATA SHEET

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

SOLVETRON

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

1.1. Product identifier

Product name : SOLVETRON
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

Cleansing product
Degreasing agent
Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +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 |
|-----------------|------------|--|
| Flam. Liq. | category 2 | H225: Highly flammable liquid and vapour. |
| Asp. Tox. | category 1 | H304: May be fatal if swallowed and enters airways. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| Eye Irrit. | category 2 | H319: Causes serious eye 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, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol; acetone.

Signal word Danger

H-statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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H411 Toxic to aquatic life with long lasting effects.

P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves, protective clothing and eye protection/face protection.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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 |
|--|-----------------------|-----------|---|---------------|-------------|
| hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 01-2119475515-33 | | C≤40% | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(10) | Constituent |
| hydrocarbons, C6, isoalkanes, < 5% n-hexane 01-2119484651-34 | | C≤30% | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(10) | Constituent |
| propan-2-ol 01-2119457558-25 | 67-63-0 200-661-7 | C≤20% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| acetone 01-2119471330-49 | 67-64-1 200-662-2 | C≤20% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| n-hexane 01-2119480412-44 | 110-54-3 203-777-6 | C≤2% | Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(2)(8)(10) | Constituent |
| cyclohexane 01-2119463273-41 | 110-82-7 203-806-2 | C≤0.4% | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | (1)(2)(10)(9) | Constituent |

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

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(9) M-factor, see heading 16

(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:

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Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. 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:

Headache. Dizziness. Drowsiness.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

Risk of aspiration pneumonia. Nausea. Gastrointestinal complaints.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

Major fire: Class B foam (not alcohol-resistant).

5.1.2 Unsuitable extinguishing media:

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

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

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). Large spills/in enclosed spaces: gas-tight suit (EN 943). Large spills/in enclosed spaces: compressed air apparatus (EN 136 + EN 137). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep upwind. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep containers closed.

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). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Large spills/in enclosed spaces: gas-tight suit (EN 943). Large spills/in enclosed spaces: compressed air apparatus (EN 136 + EN 137).

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. 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.

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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. Observe normal hygiene standards. Remove contaminated clothing immediately. Keep container tightly closed. Dry and preheat installation before use. 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. Keep container in a well-ventilated place. Protect against frost. Fireproof storeroom. Provide for a tub to collect spills. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU

| | | |
|-------------|---|------------------------|
| 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 |
| Cyclohexane | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 200 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 700 mg/m ³ |
| n-Hexane | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 72 mg/m ³ |

Belgium

| | | |
|----------------------|--|------------------------|
| 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 |
| Alcool isopropylique | Time-weighted average exposure limit 8 h | 200 ppm |
| | Time-weighted average exposure limit 8 h | 500 mg/m ³ |
| | Short time value | 400 ppm |
| | Short time value | 1000 mg/m ³ |
| Cyclohexane | Time-weighted average exposure limit 8 h | 100 ppm |
| | Time-weighted average exposure limit 8 h | 350 mg/m ³ |
| n-Hexane | Time-weighted average exposure limit 8 h | 20 ppm |
| | Time-weighted average exposure limit 8 h | 72 mg/m ³ |

The Netherlands

| | | |
|-------------|---|------------------------|
| 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 |
| Cyclohexaan | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 200 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 700 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 400 ppm |
| | Short time value (Public occupational exposure limit value) | 1400 mg/m ³ |

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|----------|---|-----------------------|
| n-Hexaan | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 72 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 40 ppm |
| | Short time value (Public occupational exposure limit value) | 144 mg/m ³ |

France

| | | |
|----------------------|--|------------------------|
| 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 |
| Alcool isopropylique | Short time value (VL: Valeur non réglementaire indicative) | 400 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 980 mg/m ³ |
| Cyclohexane | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 200 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 700 mg/m ³ |
| | Short time value (VL: Valeur non réglementaire indicative) | 375 ppm |
| | Short time value (VL: Valeur non réglementaire indicative) | 1300 mg/m ³ |
| n-Hexane | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 20 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 72 mg/m ³ |

Germany

| | | |
|-------------|---|------------------------|
| 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 |
| Cyclohexan | Time-weighted average exposure limit 8 h (TRGS 900) | 200 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 700 mg/m ³ |
| n-Hexan | Time-weighted average exposure limit 8 h (TRGS 900) | 50 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 180 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (TRGS 900) | 200 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 500 mg/m ³ |

UK

| | | |
|-------------|---|------------------------|
| 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 |
| Cyclohexane | 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)) | 350 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 300 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1050 mg/m ³ |
| n-Hexane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 20 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 72 mg/m ³ |
| Propan-2-ol | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 400 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 999 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1250 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|-------------|--|---------|
| 2-propanol | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 200 ppm |
| | Short time value (TLV - Adopted Value) | 400 ppm |
| Acetone | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 250 ppm |
| | Short time value (TLV - Adopted Value) | 500 ppm |
| Cyclohexane | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 100 ppm |
| n-Hexane | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 50 ppm |

b) National biological limit values

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

Germany

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|---|--|-------------------------------------|--|
| Aceton (Aceton) | Urin: expositionsende, bzw. schichtende | 80 mg/l | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Cyclohexan (1,2-Cyclohexandiol (nach Hydrolyse)) | Urin: bei langzeitexposition: am schichtende nach mehreren vorangegangenen schichten expositionsende, bzw. schichtende | 150 mg/g Kreatinin | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Hexan (n-Hexan) (2,5-Hexandion plus 4,5-Dihydroxy-2-Hexanon (nach Hydrolyse)) | Urin: expositionsende, bzw. schichtende | 5 mg/l | 5/2013 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Propan-2-ol (Aceton) | Urin: expositionsende, bzw. schichtende | 25 mg/l | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Propan-2-ol (Aceton) | Vollblut: expositionsende, bzw. schichtende | 25 mg/l | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |
| Vitamin K-Antagonisten (Quick-Wert) | Vollblut: keine beschränkung | Reduktion auf nicht weniger als 70% | 11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG |

USA (BEI-ACGIH)

| | | | |
|---------------------------|--|----------|-------------------------|
| 2-Propanol (Acetone) | Urine: end of shift at end of workweek | 40 mg/L | Background, Nonspecific |
| Acetone (Acetone) | Urine: end of shift | 25 mg/L | Nonspecific |
| n-Hexane (2,5-Hexanedion) | Urine: end of shift | 0,5 mg/L | Without hydrolysis |

8.1.2 Sampling methods

| Product name | Test | Number |
|---|-------|--------|
| 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 |
| Acetone | OSHA | 69 |
| Cyclohexane (Hydrocarbons, BP36 to 126C) | NIOSH | 1500 |
| Cyclohexane | OSHA | 1022 |
| Cyclohexane | OSHA | 7 |
| Isopropanol (Volatile Organic compounds) | NIOSH | 2549 |
| Isopropyl Alcohol (Alcohols I) | NIOSH | 1400 |
| Isopropyl Alcohol | OSHA | 109 |
| n-Hexane (Hydrocarbons, BP36 to 126C) | NIOSH | 1500 |
| n-Hexane (organic and inorganic gases by Extractive FTIR) | NIOSH | 3800 |
| n-Hexane (Volatile Organic compounds) | NIOSH | 2549 |
| n-Hexane | OSHA | 2248 |
| n-Hexane | OSHA | 7 |

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, C7, n-alkanes, isoalkanes, cyclics

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2085 mg/m ³ | |
| | Long-term systemic effects dermal | 300 mg/kg bw/day | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 5306 mg/m ³ | |
| | Long-term systemic effects dermal | 13964 mg/kg bw/day | |

propan-2-ol

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

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 | |

n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 75 mg/m ³ | |
| | Long-term systemic effects dermal | 11 mg/kg bw/day | |

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cyclohexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 700 mg/m ³ | |
| | Acute systemic effects inhalation | 1400 mg/m ³ | |
| | Long-term local effects inhalation | 700 mg/m ³ | |
| | Acute local effects inhalation | 1400 mg/m ³ | |
| | Long-term systemic effects dermal | 2016 mg/kg bw/day | |

DNEL/DMEL - General population

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 447 mg/m ³ | |
| | Long-term systemic effects dermal | 149 mg/kg bw/day | |
| | Long-term systemic effects oral | 149 mg/kg bw/day | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1131 mg/m ³ | |
| | Long-term systemic effects dermal | 1377 mg/kg bw/day | |
| | Long-term systemic effects oral | 1301 mg/kg bw/day | |

propan-2-ol

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 89 mg/m ³ | |
| | Long-term systemic effects dermal | 319 mg/kg bw/day | |
| | Long-term systemic effects oral | 26 mg/kg bw/day | |

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 | |

n-hexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 16 mg/m ³ | |
| | Long-term systemic effects dermal | 5.3 mg/kg bw/day | |
| | Long-term systemic effects oral | 4 mg/kg bw/day | |

cyclohexane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 206 mg/m ³ | |
| | Acute systemic effects inhalation | 412 mg/m ³ | |
| | Long-term local effects inhalation | 206 mg/m ³ | |
| | Acute local effects inhalation | 412 mg/m ³ | |
| | Long-term systemic effects dermal | 1186 mg/kg bw/day | |
| | Long-term systemic effects oral | 59.4 mg/kg bw/day | |

PNEC

propan-2-ol

| Compartments | Value | Remark |
|-------------------------------------|-----------------------|--------|
| Fresh water | 140.9 mg/l | |
| Fresh water (intermittent releases) | 140.9 mg/l | |
| Marine water | 140.9 mg/l | |
| STP | 2251 mg/l | |
| Fresh water sediment | 552 mg/kg sediment dw | |
| Marine water sediment | 552 mg/kg sediment dw | |
| Soil | 28 mg/kg soil dw | |
| Oral | 160 mg/kg food | |

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 | |

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cyclohexane

| Compartments | Value | Remark |
|-------------------------------------|-------------------------|--------|
| Fresh water | 0.207 mg/l | |
| Fresh water (intermittent releases) | 0.207 mg/l | |
| Marine water | 0.207 mg/l | |
| STP | 3.24 mg/l | |
| Fresh water sediment | 16.68 mg/kg sediment dw | |
| Marine water sediment | 16.68 mg/kg sediment dw | |
| Soil | 3.38 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. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

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

b) Hand protection:

Protective gloves against chemicals (EN 374).

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

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 | Liquid |
| Odour | Characteristic odour |
| Odour threshold | No data available in the literature |
| Colour | No data available on colour |
| Particle size | Not applicable (liquid) |
| Explosion limits | 1.1 - 13 vol % |
| Flammability | Highly flammable liquid and vapour. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | 1 mPa.s ; 20 °C |
| Kinematic viscosity | 1 mm ² /s ; 40 °C |
| Melting point | No data available in the literature |
| Boiling point | 57 °C - 95 °C |
| Evaporation rate | 7.0 ; Butyl acetate |
| Relative vapour density | No data available in the literature |
| Vapour pressure | 190 hPa ; 20 °C |
| Solubility | Water ; insoluble |
| Relative density | 0.71 ; 20 °C |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | 370 °C |
| Flash point | -18 °C |
| 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 | 714 kg/m ³ ; 20 °C |
|------------------|-------------------------------|

SOLVETRON

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

Oxidizing agents, (strong) acids, (strong) bases.

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

SOLVETRON

No (test) data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | | > 5840 mg/kg bw | | Rat (male / female) | Read-across | |
| Dermal | LD50 | | > 2800 mg/kg bw | 24 h | Rat (male / female) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 23.3 mg/l air | 4 h | Rat (male / female) | Read-across | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|------------------|---------------|---------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 16750 mg/kg bw | | Rat (male) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3350 mg/kg bw | 4 h | Rabbit (male) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | 259.354 mg/l | 4 h | Rat (male) | Read-across | |

propan-2-ol

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|----------------|---------------|---------------------|---------------------|-----------------|
| Oral | LD50 | Equivalent to OECD 401 | 5840 mg/kg bw | | Rat | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | 12882 mg/kg bw | 24 h | Rabbit | Experimental value | Converted value |
| Dermal | LD50 | Equivalent to OECD 402 | 16400 ml/kg bw | 24 h | Rabbit | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 10000 ppm | 6 h | Rat (male / female) | Experimental value | |

SOLVETRON

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 | |

n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|---------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | 16000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 3350 mg/kg bw | 4 h | Rabbit (male) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 17.6 mg/l air | 24 h | Rat (male) | Experimental value | |

cyclohexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | > 5000 mg/kg bw | | Rat (male / female) | Experimental value | |
| Dermal | LD50 | Equivalent to OECD 402 | > 2000 mg/kg bw | | Rabbit (male / female) | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | > 19.07 mg/l | 4 h | Rat (male / female) | Experimental value | |

Conclusion

Not classified for acute toxicity

Corrosion/irritation

SOLVETRON

No (test) data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | | | 7 days | Rabbit | Read-across | Single treatment |
| Skin | Irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Read-across | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|---------------------|------------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Not irritating | Equivalent to OECD 405 | 72 h | 72 hours | Rabbit | Read-across | |
| Skin | Slightly irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

propan-2-ol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|---------------------|---------|---------------------|------------------|
| Eye | Irritating | Equivalent to OECD 405 | | 24 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating | | 4 h | 4; 24; 48; 72 hours | Rabbit | Experimental value | |

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 | |

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n-hexane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------------------|------------------------|---------------|--------------|---------|---------------------|--------|
| Eye | Not irritating | Equivalent to OECD 405 | | 72 hours | Rabbit | Read-across | |
| Skin | Slightly irritating | Equivalent to OECD 404 | 24 h | 24; 72 hours | Rabbit | Read-across | |
| Skin | Irritating; category 2 | | | | | Annex VI | |

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

cyclohexane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|------------------------|-----------------------------|---------------|------------------|---------|---------------------|--------|
| Eye | Slightly irritating | Equivalent to OECD 405 | | 1 hour | Rabbit | Experimental value | |
| Skin | Not irritating | Equivalent to EU Method B.4 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Irritating; category 2 | | | | | Annex VI | |
| Inhalation | Irritating | | | | | Literature study | |

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

SOLVETRON

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | 24; 48 hours | Guinea pig (male / female) | Read-across | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|-----------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse (male / female) | Read-across | |

propan-2-ol

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

acetone

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

n-hexane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|---------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 429 | | | Mouse | Read-across | |

cyclohexane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|---------------|---------------|------------------------|----------------------------|---------------------|--------|
| Skin | Not sensitizing | EU Method B.6 | | | Guinea pig (male / female) | Experimental value | |

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

SOLVETRON

No (test)data on the mixture available

Classification is based on the relevant ingredients

Reason for revision: 2.2; 3.2; 4; 8; 15

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SOLVETRON

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|-----------------------------|------------------------|-----------------------------|------------------------------------|---------------------|---------------------|
| Inhalation (vapours) | NOAEL | Equivalent to OECD 413 | 12350 mg/m ³ air | | No adverse systemic effects | 26 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |
| Inhalation (vapours) | LOAEL | Equivalent to OECD 413 | 1650 mg/m ³ air | Central nervous system | CNS depression | 26 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------------|-----------------------------|---------------|--------------|------------------------------------|------------|---------------------|
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 413 | 10504 mg/m ³ air | | No effect | 13 weeks (6h / day, 5 days / week) | Rat (male) | Read-across |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 413 | 31652 mg/m ³ air | Liver; kidney | Organ damage | 13 weeks (6h / day, 5 days / week) | Rat (male) | Read-across |

propan-2-ol

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

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 |

n-hexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------------|--------------------------------------|------------------------|-----------------------|--------------------------|------------|---------------------|
| Oral (stomach tube) | NOAEL | Subchronic toxicity test | 567 mg/kg bw/day - 1135 mg/kg bw/day | | No effect | 13 weeks (5 days / week) | Rat (male) | Experimental value |
| Oral (stomach tube) | LOAEL | Subchronic toxicity test | 3956 mg/kg bw/day | Central nervous system | neurotoxic effects | 17 weeks (5 days / week) | Rat (male) | Experimental value |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | LOAEC | Subchronic toxicity test | 3000 ppm | Central nervous system | neurotoxic effects | 16 weeks (daily) | Rat (male) | Experimental value |
| Inhalation (vapours) | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Annex VI |

cyclohexane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------------------|----------|------------------------|-----------------------------|------------------------------------|---------------------|---------------------|
| Oral | | | | | | | | Data waiving |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | NOAEC | EPA OPPTS 870.3465 | 7000 ppm | | No adverse systemic effects | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value |
| Inhalation (vapours) | NOAEC | EPA OPPTS 870.3465 | 500 ppm | Central nervous system | No effect | 6 h | Rat (male / female) | Experimental value |

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

SOLVETRON

No (test) data on the mixture available

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SOLVETRON

Judgement is based on the relevant ingredients
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|----------|-------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | OECD 476 | Human lymphocytes | No effect | Read-across | |

hydrocarbons, C6, isoalkanes, < 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) | No effect | Read-across | |

propan-2-ol

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

acetone

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

n-hexane

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|------------------------|-------------------------------|-----------|---------------------|--------|
| Negative | OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value | |
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |

cyclohexane

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|-------------------------------|-----------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Mouse (lymphoma L5178Y cells) | No effect | Experimental value | |

Mutagenicity (in vivo)

SOLVETRON

No (test)data on the mixture available

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

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|------------------------|-------------------|---------------------|-------------|---------------------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 475 | 5 days (6h / day) | Rat (male / female) | Bone marrow | Experimental value |

propan-2-ol

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

acetone

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

n-hexane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|--------|-----------------------------------|----------------|-------|---------------------|
| Negative (Inhalation (vapours)) | | 8 weeks (6h / day, 5 days / week) | Mouse (male) | | Experimental value |

cyclohexane

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|------------------------|-------------------|---------------------|-------------|---------------------|
| Negative (Inhalation (vapours)) | Equivalent to OECD 475 | 5 days (6h / day) | Rat (male / female) | Bone marrow | Experimental value |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Reason for revision: 2.2; 3.2; 4; 8; 15

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SOLVETRON

No (test) data on the mixture available

Judgement is based on the relevant ingredients
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|-------------------|-----------|--------|-------|---------------|---------|--------|-------|---------------------|
| Inhalation | | | | | | | | Data waiving |
| Dermal | | | | | | | | Data waiving |
| Oral | | | | | | | | Data waiving |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|------------------------|----------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9016 ppm | 104 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Experimental value |

propan-2-ol

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

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 |

n-hexane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|-----------|------------------------|----------|-------------------------------------|----------------|------------------------|-------|---------------------|
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 3000 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (female) | No carcinogenic effect | | Read-across |
| Inhalation (vapours) | LOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (female) | Tumor formation | Liver | Read-across |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 451 | 9018 ppm | 104 weeks (6h / day, 5 days / week) | Mouse (male) | No carcinogenic effect | | Read-across |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

SOLVETRON

No (test) data on the mixture available

Judgement is based on the relevant ingredients
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|--------------|------------------------|-----------------------------|--------------------|---------------------|------------------------------------|-------|---------------------|
| Developmental toxicity | NOAEL | Equivalent to OECD 414 | 31680 mg/m ³ air | 10 days (6h / day) | Mouse | No effect | | Read-across |
| Maternal toxicity | NOAEL | Equivalent to OECD 414 | 10560 mg/m ³ air | 10 days (6h / day) | Rat (female) | No effect | | Read-across |
| | LOAEL | Equivalent to OECD 414 | 31680 mg/m ³ air | 10 days (6h / day) | Rat (female) | Lung tissue affection/degeneration | Lungs | Read-across |
| Effects on fertility | NOAEL (P/F1) | Equivalent to OECD 416 | 31680 mg/m ³ air | | Rat (male / female) | No effect | | Read-across |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|------------|--------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | > 7000 ppm | 10 days (6h / day) | Rat | No effect | | Read-across |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 2000 ppm | 10 days (6h / day) | Rat (female) | No effect | | Read-across |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 9000 ppm | | Rat (male / female) | No effect | | Read-across |

propan-2-ol

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|--|-----------|------------------------|------------------|-----------------------|---------------------|-----------|--------|---------------------|
| Developmental toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | Foetus | Experimental value |
| Maternal toxicity (Oral (stomach tube)) | NOAEL | Equivalent to OECD 414 | 400 mg/kg bw/day | 10 day(s) | Rat | No effect | | Experimental value |
| Effects on fertility (Oral (drinking water)) | NOAEL | Equivalent to OECD 415 | 853 mg/kg bw/day | 21 day(s) - 70 day(s) | Rat (male / female) | No effect | | Experimental value |

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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 |

n-hexane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|----------|--------------------------------------|---------------------|-------------------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (gestation, 6h / day) | Rat | No effect | | Experimental value |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 3000 ppm | 10 days (gestation, 6h / day) | Rat | No effect | | Experimental value |
| | LOAEC | Equivalent to OECD 414 | 9000 ppm | 10 days (gestation, 6h / day) | Rat | Maternal toxicity | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 9000 ppm | ≥ 13 weeks (6h / day, 5 days / week) | Rat (male / female) | No effect | | Experimental value |

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

cyclohexane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|--------------------|--------------------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 7000 ppm | 10 days (6h / day) | Rat | No effect | | Experimental value |
| Maternal toxicity (Inhalation (vapours)) | NOAEC | Equivalent to OECD 414 | 500 ppm - 2000 ppm | 10 days (6h / day) | Rat | No effect | | Experimental value |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | 500 ppm - 2000 ppm | > 11 weeks (6h / day, 5 days / week) | Rat (male / female) | No effect | | Experimental value |

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

Classification is based on the relevant ingredients
May be fatal if swallowed and enters airways.

Toxicity other effects

SOLVETRON

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|------------------------|----------|------------------------|-----------------|------------------------------------|---------------------|----------------------------------|
| NOAEC | Equivalent to OECD 424 | 9000 ppm | Central nervous system | Overall effects | 13 weeks (6h / day, 5 days / week) | Rat (male / female) | Experimental value Inhalation |

acetone

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

cyclohexane

| Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|-----------|--------|----------|-------|--------------------|---------------|------------|---------------------|
| NOAEC | | 2000 ppm | | neurotoxic effects | 6 h | Rat (male) | Experimental value |

Chronic effects from short and long-term exposure

SOLVETRON

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

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

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hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|-----------------|----------|---------------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LL50 | OECD 203 | > 13.4 mg/l WAF | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | OECD 202 | 3.0 mg/l WAF | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EL50 | OECD 201 | 13 mg/l WAF | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Read-across; GLP |
| Long-term toxicity fish | NOELR | | 1.534 mg/l | 28 | Oncorhynchus mykiss | | Fresh water | QSAR; Nominal concentration |
| Toxicity aquatic micro-organisms | EL50 | | 26.81 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Growth rate |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------|------------|-----------|---------------------------------|-------------|------------------|---------------------|
| Acute toxicity fishes | LL50 | | 18.27 mg/l | 96 h | Oncorhynchus mykiss | | Fresh water | QSAR |
| Acute toxicity crustacea | EL50 | | 31.9 mg/l | 48 h | Daphnia magna | | Fresh water | QSAR |
| Toxicity algae and other aquatic plants | EL50 | | 13.56 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | QSAR |
| Long-term toxicity fish | NOELR | | 4.089 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR |
| Long-term toxicity aquatic crustacea | NOELR | | 7.138 mg/l | 21 day(s) | Daphnia magna | | Fresh water | QSAR |

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

propan-2-ol

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|--------------------|---------------------------|------------------------|-----------|-------------------------|---------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 9640 mg/l - 10000 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | LC50 | Equivalent to OECD 202 | > 10000 mg/l | 24 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | Toxicity threshold | | 1800 mg/l | 7 day(s) | Scenedesmus quadricauda | Static system | Fresh water | Experimental value; Toxicity test |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | NOEC | | 2344 µmol/l | 16 day(s) | Daphnia magna | | Fresh water | Experimental value; Growth |
| Toxicity aquatic micro-organisms | Toxicity threshold | Equivalent to DIN 38412/8 | 1050 mg/l | 16 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Toxicity test |

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 |

SOLVETRON

n-hexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------|------------|-----------|---------------------------------|-------------|------------------|-----------------------------------|
| Acute toxicity fishes | LL50 | | 12.51 mg/l | 96 h | Oncorhynchus mykiss | | Fresh water | Estimated value; Lethal |
| Acute toxicity crustacea | EL50 | | 21.85 mg/l | 48 h | Daphnia magna | | Fresh water | Estimated value; Locomotor effect |
| Toxicity algae and other aquatic plants | EL50 | | 9.285 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | Estimated value; Growth rate |
| Long-term toxicity fish | NOELR | | 2.8 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | Estimated value; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | | 4.888 mg/l | 21 day(s) | Daphnia magna | | Fresh water | Estimated value; Reproduction |
| Toxicity aquatic micro-organisms | EL50 | | 48.39 mg/l | 48 h | Tetrahymina pyriformis | | Fresh water | QSAR; Growth |

cyclohexane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|------------------------|------------|----------|---------------------------------|---------------------|------------------|--|
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | 4.53 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Measured concentration |
| Acute toxicity crustacea | EC50 | Equivalent to OECD 202 | 0.9 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | EC50 | Equivalent to OECD 201 | 9.317 mg/l | 72 h | Pseudokirchneriella subcapitata | | | Experimental value; Growth rate |
| Long-term toxicity fish | | | | | | | | Data waiving |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |
| Toxicity aquatic micro-organisms | IC50 | | 29 mg/l | 15 h | Aerobic micro-organisms | | | Experimental value; Oxygen consumption |

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Biodegradation water

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

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-----------|-----------|---------------------|
| OECD 301F | 98 %; GLP | 28 day(s) | Read-across |

propan-2-ol

Biodegradation water

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

acetone

Biodegradation water

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

n-hexane

Biodegradation water

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

Biodegradation soil

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

cyclohexane

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|--------------------------|-----------|---------------------|
| OECD 301F | 77 %; Oxygen consumption | 28 day(s) | Experimental value |

Half-life soil (t1/2 soil)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|------------------------|------------------------------------|---------------------|
| | 28 day(s) - 180 day(s) | | Literature study |

Conclusion

Reason for revision: 2.2; 3.2; 4; 8; 15

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Product number: 32104

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Water

Does not contain any not readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

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

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | > 3 | | |

hydrocarbons, C6, isoalkanes, < 5% n-hexane

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|---------|----------|---------------------|---------------------|
| BCF | | 501.187 | | Pimephales promelas | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 107 | | 3.6 | 20 °C | Read-across |

propan-2-ol

Log Kow

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

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 |

n-hexane

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|---------|----------|---------------------|---------------------|
| BCF | Other | 501.187 | | Pimephales promelas | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 107 | | 4 | 20 °C | Experimental value |

cyclohexane

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|------------------------|----------|---------------------|---------------------|
| BCF | | 167 l/kg; Fresh weight | | Pimephales promelas | QSAR |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 3.44 | 25 °C | Experimental value |

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

hydrocarbons, C6, isoalkanes, < 5% n-hexane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 3.34 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 93.6 % | 0 % | 2.1 % | 0.5 % | 3.8 % | Calculated value |

n-hexane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 3.34 | QSAR |

cyclohexane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|--------|-------|---------------------|
| log Koc | | 2.89 | Calculated value |

Conclusion

Contains component(s) that adsorb(s) into the soil

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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

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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)

propan-2-ol

Groundwater

Groundwater pollutant

cyclohexane

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).

20 01 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. 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. 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 | 1993 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | Flammable liquid, n.o.s. (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol) |
|----------------------|---|

14.3. Transport hazard class(es)

| | |
|------------------------------|----|
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
| Labels | 3 |

14.5. Environmental hazards

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

14.6. Special precautions for user

| | |
|--------------------|--|
| Special provisions | 274 |
| Special provisions | 601 |
| Special provisions | 640D |
| 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 | 1993 |
|-----------|------|

14.2. UN proper shipping name

| | |
|----------------------|---|
| Proper shipping name | Flammable liquid, n.o.s. (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol) |
|----------------------|---|

14.3. Transport hazard class(es)

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| | |
|---|--|
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |
| 14.4. Packing group | |
| Packing group | II |
| Labels | 3 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 601 |
| Special provisions | 640D |
| 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 | 1993 |
| 14.2. UN proper shipping name | |
| Proper shipping name | Flammable liquid, n.o.s. (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Classification code | F1 |
| 14.4. Packing group | |
| Packing group | II |
| Labels | 3 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| Special provisions | 601 |
| Special provisions | 640D |
| 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 | 1993 |
| 14.2. UN proper shipping name | |
| Proper shipping name | flammable liquid, n.o.s. (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| 14.4. Packing group | |
| Packing group | II |
| Labels | 3 |
| 14.5. Environmental hazards | |
| Marine pollutant | P |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | 274 |
| 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, based on available data |

Air (ICAO-TI/IATA-DGR)

| | |
|---|---|
| 14.1. UN number | |
| UN number | 1993 |
| 14.2. UN proper shipping name | |
| Proper shipping name | Flammable liquid, n.o.s. (hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; hydrocarbons, C6, isoalkanes, < 5% n-hexane; propan-2-ol) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| 14.4. Packing group | |
| Packing group | II |
| Labels | 3 |
| 14.5. Environmental hazards | |
| Environmentally hazardous substance mark | yes |
| 14.6. Special precautions for user | |
| Special provisions | A3 |

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Passenger and cargo transport

Limited quantities: maximum net quantity per packaging

1 L

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 |
|-------------|--------|
| 100.00 % | |
| 714.00 g/l | |

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

≥30% aliphatic hydrocarbons

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, C7, n-alkanes, isoalkanes, cyclics · hydrocarbons, C6, isoalkanes, < 5% n-hexane · propan-2-ol · acetone · n-hexane · cyclohexane | <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"> · hydrocarbons, C7, n-alkanes, isoalkanes, cyclics · hydrocarbons, C6, isoalkanes, < 5% n-hexane · propan-2-ol · acetone · n-hexane · cyclohexane | <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, — "whoopee" 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"> · cyclohexane | <p>Cyclohexane</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 neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g. 2. Neoprene-based contact adhesives containing cyclohexane and not conforming to |

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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 neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows:

— This product is not to be used under conditions of poor ventilation.

— This product is not to be used for carpet laying.”.

National legislation Belgium

SOLVETRON

No data available

National legislation The Netherlands

SOLVETRON

| | |
|----------------------|---|
| Waterbezwaarlijkheid | A (2); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

n-hexane

| | |
|--|---|
| SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid) | n-hexaan; 2; Suspected of damaging fertility. |
|--|---|

National legislation France

SOLVETRON

No data available

n-hexane

| | |
|--|--------------|
| Catégorie toxique pour la reproduction | n-Hexane; R2 |
|--|--------------|

National legislation Germany

SOLVETRON

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

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

propan-2-ol

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

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

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

n-hexane

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

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

cyclohexane

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

National legislation United Kingdom

SOLVETRON

No data available

Other relevant data

SOLVETRON

No data available

propan-2-ol

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

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

acetone

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

n-hexane

| | |
|-----------------------|--|
| TLV - Skin absorption | n-Hexane; Skin; Danger of cutaneous absorption |
|-----------------------|--|

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SOLVETRON

SECTION 16: Other information

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

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

| | |
|--------------|--|
| (*) | 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 |

M-factor

| | | | |
|-------------|---|-------|------|
| cyclohexane | 1 | Acute | ECHA |
|-------------|---|-------|------|

Specific concentration limits CLP

| | | | |
|----------|---------|-----------------|----------------------|
| n-hexane | C ≥ 5 % | STOT RE 2; H373 | CLP Annex VI (ATP 0) |
|----------|---------|-----------------|----------------------|

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