

Solvent Cleaner

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

1.1 Product identifier:

Product name : Solvent Cleaner
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

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

SOULDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
☎ +32 14 42 42 31
+32 14 42 65 14
msds@soudal.com

Manufacturer of the product

SOULDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
☎ +32 14 42 42 31
+32 14 42 65 14
msds@soudal.com

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:

2.1.1 Classification according to Regulation EC No 1272/2008

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. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| STOT SE | category 3 | H335: May cause respiratory irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |
| Aquatic Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F; R11 - Highly flammable.

Xi; R36 - Irritating to eyes.

R66 - Repeated exposure may cause skin dryness or cracking.

R67 - Vapours may cause drowsiness and dizziness.

N; R51-53 - Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008



Signal word



Danger



Solvent Cleaner

H-statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H335 May cause respiratory 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.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P280 Wear protective gloves 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/shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Highly flammable



Harmful



Dangerous for the environment

R-phrases

36 Irritating to eyes
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 66 Repeated exposure may cause skin dryness or cracking
 67 Vapours may cause drowsiness and dizziness

S-phrases

(02) (Keep out of the reach of children)
 16 Keep away from sources of ignition - No smoking
 33 Take precautionary measures against static discharges
 43 In case of fire, use powder extinguisher
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
 (62) (If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label)

2.3 Other hazards:

CLP

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

DSD/DPD

May be ignited by sparks
 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 DSD/DPD | Classification according to CLP | Note | Remark |
|--|-----------------------|---------------|--|---|------------|-------------|
| hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics 01-2119473851-33 | | 30%<C<5 0% | F; R11 Xn; R65 R66 R67 N; R51-53 | Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(10) | Constituent |
| n-butyl acetate 01-2119485493-29 | 123-86-4 204-658-1 | 1%<C<10 % | R10 R66 R67 | Flam. Liq. 3; H226 STOT SE 3; H336 | (1)(2)(10) | Constituent |

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|-----------------------------|----------------------|---------------|---------------------------------|---|------------|-------------|
| acetone 01-2119471330-49 | 67-64-1 200-662-2 | 10%<C<3 0% | F; R11 Xi: R36 R66 R67 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent |
|-----------------------------|----------------------|---------------|---------------------------------|---|------------|-------------|

- (1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel ..

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

4.2.1 Acute symptoms

After inhalation:

Irritation of the respiratory tract. Nausea. Headache. Central nervous system depression. Behavioural disturbances. Dizziness. Feeling of weakness. Disturbances of consciousness.

After skin contact:

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

After eye contact:

Irritation of the eye tissue. Redness of the eye tissue.

After ingestion:

Risk of aspiration pneumonia.

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:

Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium. Water spray ineffective as extinguishing medium.

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:

If exposed to fire cool the closed containers by spraying with water. 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. Protective goggles. Head/neck protection. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection.

Suitable protective clothing

See heading 8.2

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6.2 Environmental precautions:

Contain leaking substance. Dam up the liquid spill. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling:

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Take precautions against electrostatic charges. Avoid prolonged and repeated contact with skin. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Insufficient ventilation: use spark-/explosionproof appliances and lighting system.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: room temperature. Store at room temperature. Keep out of direct sunlight. Keep container in a well-ventilated place. Limited time of storage. Meet the legal requirements. Max. storage time: 365 day(s).

7.2.2 Keep away from:

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

7.2.3 Suitable packaging material:

HDPE.

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.

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 | |
| n-Butylacetaat | Time-weighted average exposure limit 8 h (Private occupational exposure limit value) | 99 ppm | |
| | Time-weighted average exposure limit 8 h (Private occupational exposure limit value) | 480 mg/m ³ | |

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 | |

Belgium

| | | | |
|---------------------|--|------------------------|--|
| Acétate de n-butyle | Time-weighted average exposure limit 8 h | 150 ppm | |
| | Time-weighted average exposure limit 8 h | 723 mg/m ³ | |
| | Short time value | 200 ppm | |
| | Short time value | 964 mg/m ³ | |
| Acétone | Time-weighted average exposure limit 8 h | 500 ppm | |
| | Time-weighted average exposure limit 8 h | 1210 mg/m ³ | |
| | Short time value | 1000 ppm | |

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|---------|------------------|------------------------|--|
| Acétone | Short time value | 2420 mg/m ³ | |
|---------|------------------|------------------------|--|

USA (TLV-ACGIH)

| | | | |
|-----------------|--|---------|--|
| Acetone | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 500 ppm | |
| | Short time value (TLV - Adopted Value) | 750 ppm | |
| n-Butyl acetate | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 150 ppm | |
| | Short time value (TLV - Adopted Value) | 200 ppm | |

France

| | | | |
|---------------------|--|------------------------|--|
| Acétate de n-butyle | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 150 ppm | |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 710 mg/m ³ | |
| | Short time value (VL: Valeur non réglementaire indicative) | 200 ppm | |
| | Short time value (VL: Valeur non réglementaire indicative) | 940 mg/m ³ | |
| Acétone | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 500 ppm | |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 1210 mg/m ³ | |
| | Short time value (VRC: Valeur réglementaire contraignante) | 1000 ppm | |
| | Short time value (VRC: Valeur réglementaire contraignante) | 2420 mg/m ³ | |

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 | |
| 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 | |

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

| | | |
|--|-------|------|
| 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 | OSHA | 69 |
| Butyl acetate (Volatile Organic compounds) | NIOSH | 2549 |
| n-Butyl Acetate (Esters I) | NIOSH | 1450 |
| n-Butyl Acetate | OSHA | 1009 |

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 DNEL/PNEC values

DNEL - Workers

n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 480 mg/m ³ | |
| | Acute systemic effects inhalation | 960 mg/m ³ | |
| | Long-term local effects inhalation | 480 mg/m ³ | |
| | Acute local effects inhalation | 960 mg/m ³ | |

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

DNEL - General population

n-butyl acetate

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 102.34 mg/m ³ | |
| | Acute systemic effects inhalation | 859.7 mg/m ³ | |
| | Long-term local effects inhalation | 102.34 mg/m ³ | |
| | Acute local effects inhalation | 859.7 mg/m ³ | |

acetone

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

PNEC

n-butyl acetate

| Compartments | Value | Remark |
|------------------------------|--------------------------|--------|
| Fresh water | 0.18 mg/l | |
| Marine water | 0.018 mg/l | |
| Aqua (intermittent releases) | 0.36 mg/l | |
| STP | 35.6 mg/l | |
| Fresh water sediment | 0.981 mg/kg sediment dw | |
| Marine water sediment | 0.0981 mg/kg sediment dw | |
| Soil | 0.0903 mg/kg soil dw | |

acetone

| Compartments | Value | Remark |
|------------------------------|------------------------|--------|
| Fresh water | 10.6 mg/l | |
| Marine water | 1.06 mg/l | |
| Aqua (intermittent releases) | 21 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 | |
| STP | 100 mg/l | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

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

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Take precautions against electrostatic charges. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Avoid prolonged and repeated contact with skin. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

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 |
| Colour | Colourless |
| Particle size | Not applicable (liquid) |
| Explosion limits | No data available |
| Flammability | Highly flammable liquid and vapour. |

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| | |
|---------------------------|--|
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | No data available |
| Kinematic viscosity | No data available |
| Melting point | No data available |
| Boiling point | No data available |
| Flash point | 12 °C |
| Evaporation rate | No data available |
| Relative vapour density | No data available |
| Vapour pressure | No data available |
| Solubility | No data available |
| Relative density | 0.80 |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

9.2 Other information:

| | |
|------------------|-----------------------|
| Absolute density | 791 kg/m ³ |
|------------------|-----------------------|

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:

Reacts with (some) acids and with (strong) oxidizers.

10.4 Conditions to avoid:

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Take precautions against electrostatic charges.

10.5 Incompatible materials:

Oxidizing agents, (strong) acids.

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

Solvent Cleaner

No (test)data on the mixture available

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|----------------|---------------|-------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | >5840 mg/kg bw | | Rat (male/female) | Experimental value | |
| Dermal | LD50 | | >4 ml/kg bw | 24 h | Rat (male/female) | Experimental value | |
| Dermal | LD50 | | >2920 ml/kg bw | 24 h | Rat | Experimental value | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | >23.2 mg/l air | 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 | 12789 mg/kg | | Rat (male) | Experimental value | |
| Oral | LD50 | Equivalent to OECD 423 | 10760 mg/kg bw | | Rat (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 air | 4 h | Rat (male/female) | Experimental value | |

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| 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 | | >7426 mg/kg bw | | Rabbit (female) | Weight of evidence | |
| Inhalation (vapours) | LC50 | Other | 76 mg/l | 4 h | Rat (female) | Experimental value | |
| Inhalation (vapours) | LCL0 | Other | 16000 ppm | 4 h | Rat | Experimental value | |

Classification is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Solvent Cleaner

No (test)data on the mixture available

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 |
| Skin | Not irritating | Equivalent to OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Inhalation (vapours) | Slightly irritating | Human observation | 3-5 minutes | | Human | 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 | |

Classification is based on the relevant ingredients

Conclusion

Irritating to the eyes

Irritating to the skin

Respiratory or skin sensitisation

Solvent Cleaner

No (test)data on the mixture available

n-butyl acetate

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|--------|---------------|------------------------|---------|---------------------------------|--------|
| Skin | Not sensitizing | | 24 h | 24 hours | Human | Inconclusive, insufficient data | |

acetone

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------------|---------------|------------------------|------------------|---------------------|--------|
| Skin | Not sensitizing | Guinea pig maximisation test | | 48 hours | Hamster (female) | Experimental value | |
| Skin | Not sensitizing | Human observation | | | Human | Literature | |

Classification is based on the relevant ingredients

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

Solvent Cleaner

No (test)data on the mixture available

n-butyl acetate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|------------------|---------|------------------------|-----------------------|--------------------------------|-------------------|---------------------|
| Inhalation (vapours) | NOAEC | EPA OTS 798.2450 | 500 ppm | | No effect | 13 weeks (6h/day, 5 days/week) | Rat (male/female) | Experimental value |
| Inhalation (vapours) | | | | Central nervous system | Drowsiness, dizziness | | | Literature study |

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| 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 |
| Dermal | | | | | | | | Not relevant, expert |
| Inhalation (vapours) | NOAEC | Other | 19000 ppm | | No effect | 8 week(s) | Rat (male) | Literature |
| Inhalation (vapours) | | Human observation study | 361 ppm | Central nervous system | neurotoxic effects | 2 day(s) | Human | Inconclusive, insufficient data |

Classification is based on the relevant ingredients

Conclusion

Vapours may cause drowsiness and dizziness.

Mutagenicity (in vitro)

Solvent Cleaner

No (test) data on the mixture available

n-butyl acetate

| Result | Method | Test substrate | Effect | Value determination |
|---|------------------------|----------------------------------|-----------|---------------------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |
| Negative without metabolic activation | Equivalent to OECD 473 | Chinese hamster lung fibroblasts | No effect | Experimental value |

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| Result | Method | Test substrate | Effect | Value determination |
|----------|------------------------|-----------------------------|-----------|---------------------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |
| Negative | Equivalent to OECD 473 | Chinese hamster ovary (CHO) | No effect | Experimental value |

Mutagenicity (in vivo)

Solvent Cleaner

No (test) data on the mixture available

n-butyl acetate

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|----------|----------|---------------|---------------------|-------------|---------------------|
| Negative | OECD 474 | 24 h | Mouse (male/female) | Bone marrow | Read-across |

acetone

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

Carcinogenicity

Solvent Cleaner

No (test) data on the mixture available

n-butyl acetate

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

acetone

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

Reproductive toxicity

Solvent Cleaner

No (test) data on the mixture available

n-butyl acetate

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|------------------------|----------|---------------|-------------------|---------------------------|---------|---------------------|
| Developmental toxicity | LOAEC | Equivalent to OECD 414 | 1500 ppm | 6 week(s) | Rat | Minor skeletal variations | Foetus | Experimental value |
| Maternal toxicity | LOAEC | Equivalent to OECD 414 | 1500 ppm | 6 week(s) | Rat | Reduced food consumption | General | Experimental value |
| Effects on fertility | NOAEC | OECD 416 | 2000 ppm | 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 | 6-19 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 |

Classification is based on the relevant ingredients

Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Toxicity other effects

Solvent Cleaner

No (test) data on the mixture available

n-butyl acetate

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

acetone

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

Classification is based on the relevant ingredients

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

Solvent Cleaner

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

Solvent Cleaner

No (test) data on the mixture available

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|------------------------------|-----------|----------|-----------------|----------|---------------------|-------------|------------------|---------------------|
| Acute toxicity fishes | LC50 | OECD 203 | 3 - 10 mg/l | 96 h | Oncorhynchus mykiss | | | Experimental value |
| Acute toxicity invertebrates | EC50 | OECD 202 | 4.6 - 10.0 mg/l | 48 h | Daphnia magna | | | Experimental value |

n-butyl acetate

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|--|-----------|----------|------------|-----------|-------------------------|---------------------|------------------|---|
| Acute toxicity fishes | LC50 | OECD 203 | 18 mg/l | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity invertebrates | EC50 | | 44 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Nominal concentration |
| Toxicity algae and other aquatic plants | EC50 | | 674.7 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity aquatic invertebrates | NOEC | OECD 211 | 23 mg/l | 21 day(s) | Daphnia magna | | Fresh water | Read-across; Reproduction |
| Toxicity aquatic micro-organisms | IC50 | | 356 mg/l | 40 h | Tetrahymena pyriformis | Static system | Fresh water | Experimental value; Nominal concentration |

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| | 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 | Salmo gairdneri | Static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity invertebrates | 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 |

Classification of the mixture is based on the relevant ingredients of the mixture

Conclusion

Toxic to aquatic organisms

Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Biodegradation water

| Method | Value | Duration | Value determination |
|---|-------|-----------|---------------------|
| OECD 301F: Manometric Respirometry Test | 98 % | 28 day(s) | Read-across |

n-butyl acetate

Biodegradation water

| Method | Value | Duration | Value determination |
|-------------------------------|-------|-----------|---------------------|
| OECD 301D: Closed Bottle Test | 83 % | 28 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|--------------|------------|------------------------|---------------------|
| AOPWIN v1.92 | 3.3 day(s) | 0.5E6 /cm ³ | Experimental value |

Half-life water (t1/2 water)

| Method | Value | Primary degradation/mineralisation | Value determination |
|--------|-----------|------------------------------------|---------------------|
| Other | 2 year(s) | Primary degradation | Calculated value |

acetone

Biodegradation water

| Method | Value | Duration | Value determination |
|-------------------------------|--------|-----------|---------------------|
| OECD 301B: CO2 Evolution Test | 90.9 % | 28 day(s) | Experimental value |

Conclusion

Contains readily biodegradable component(s)

12.3 Bioaccumulative potential:

Solvent Cleaner

Log Kow

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

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|-------------------|-------|-------------|---------------------|
| | No data available | | | |

n-butyl acetate

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| BCF | | 14 | | Pisces | Literature study |

Log Kow

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

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acetone

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| BCF | | 0.69 | | Pisces | |

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------|-------|----------|---------|---------------------|
| BCF | BCFWIN | 3 | | | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | -0.24 | | Test data |

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

n-butyl acetate

(log) Koc

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

Volatility (Henry's Law constant H)

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

Conclusion

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

12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Solvent Cleaner

Global warming potential (GWP)

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

Ozone-depleting potential (ODP)

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

n-butyl acetate

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water 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

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

07 06 04* (wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics: other organic solvents, washing liquids and mother liquors). Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. 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

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:

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| | |
|--|--|
| Proper shipping name | Flammable liquid, n.o.s. (hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics), Special provision 640D |
| 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-C9, n-alkanes, isoalkanes, cyclics), Special provision 640D |
| 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) |

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-C9, n-alkanes, isoalkanes, cyclics), Special provision 640D |
| 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. (koolwaterstoffen, C7-C9, n-alkanen, iso-alkanen, cyclische stoffen) |
| 14.3 Transport hazard class(es): | |
| Class | 3 |

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| | |
|--|--|
| 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 73/78 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. (koolwaterstoffen, C7-C9, n-alkanen, iso-alkanen, cyclische stoffen) |
| 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 |
| 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 |
|-------------|--------|
| >=90 % | |

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 |
|---|---|---|
| hydrocarbons, C7-C9, n-alkanen, isoalkanen, cyclics n-butyl acetate acetone | Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects.2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or 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: a) lamp oils, labelled with R65 or 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 R65 or 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 R65 or 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 R65 or 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 |

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| | | |
|---|---|--|
| | | with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics n-butyl acetate acetone | 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. | 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: — 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: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |

National legislation The Netherlands

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| | |
|--|---|
| Waste identification (the Netherlands) | LWCA (the Netherlands): KGA category 03 |
| Waterbezwaarlijkheid | 6 |

National legislation France

Solvent Cleaner

No data available

National legislation Belgium

Solvent Cleaner

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Full text of any R-phrases referred to under headings 2 and 3:

- R10 Flammable
- R36 Irritating to eyes
- R51 Toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R66 Repeated exposure may cause skin dryness or cracking
- R67 Vapours may cause drowsiness and dizziness

Full text of any H-statements referred to under headings 2 and 3:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

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

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

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reproduction are limited. Consult the mentioned agreement/conditions for details.

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