

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
 Issue date: 08/12/2022 Revision date: 08/12/2022 Supersedes version of: 10/04/2017 Version: 4.0

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

1.1. Product identifier

| | |
|--------------|-----------------------|
| Product form | Mixture |
| Name | Cleaning Spray 150 ml |
| UFI | GHQK-RY4U-343T-E66V |
| Product code | BU Direct Fastening |
| Vaporizer | Aerosol |

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Fastening Systems) Limited
 Unit C4 North City Business Park, Finglas
 IE- 11 Dublin
 Irland
 T +353 188 64101
 1850-287 387 Call Save - F +353 183 03569
iesales@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
 Hiltistrasse 6
 DE- 86916 Kaufering
 Deutschland
 T +49 8191 906310 - F +49 8191 90176310
df-hse@hilti.com

1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service
 +41 44 251 51 51 (international)
 +353 188 64101
 1850-287 387 Call Save

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|--|-----------|
| Aerosol, Category 1 | H222;H229 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

GHS09

Signal word (CLP)

Danger

Contains

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane, Acetone, 1-methoxypropan-2-ol

Hazard statements (CLP)

H222 - Extremely flammable aerosol.
 H229 - Pressurised container: May burst if heated.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.
 H411 - Toxic to aquatic life with long lasting effects.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 - Do not spray on an open flame or other ignition source.
 P251 - Do not pierce or burn, even after use.
 P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 For professional users only.

Precautionary statements (CLP)

Extra phrases

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|--|---|
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Acetone (67-64-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1-methoxypropan-2-ol (107-98-2) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Carbon dioxide (124-38-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|--|---|
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Acetone(67-64-1) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Component | |
|--------------------------------|---|
| 1-methoxypropan-2-ol(107-98-2) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Carbon dioxide(124-38-9) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | EC-No.: 921-024-6 REACH-no: 01-2119475514-35 | 50 – 75 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Acetone substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit | CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330-49 | 25 – 50 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| 1-methoxypropan-2-ol substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit | CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35 | 5 – 10 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| Carbon dioxide (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit | CAS-No.: 124-38-9 EC-No.: 204-696-9 | 5 – 10 | Press. Gas (Liq.), H280 |

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | Take off immediately all contaminated clothing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. |
| First-aid measures after ingestion | Get immediate medical advice/attention. |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

| | |
|-------------------------------------|----------------------|
| Symptoms/effects after inhalation | Shortness of breath. |
| Symptoms/effects after skin contact | Irritation. |
| Symptoms/effects after eye contact | Eye irritation. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Water spray. Carbon dioxide. Dry powder. Foam. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--|
| Fire hazard | Extremely flammable aerosol. |
| Explosion hazard | Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. |
| Hazardous decomposition products in case of fire | Formation of toxic gases is possible during heating or in case of fire. Thermal decomposition generates : Carbon dioxide. Carbon monoxide. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | Fight fire remotely due to the risk of explosion. |
| Firefighting instructions | DO NOT fight fire when fire reaches explosives. Evacuate area. |
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| General measures | Evacuate area. No flames, no sparks. Eliminate all sources of ignition. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | Ventilate spillage area. Avoid breathing spray, vapours. Evacuate unnecessary personnel. |
| 6.1.2. For emergency responders | |
| Protective equipment | Do not attempt to take action without suitable protective equipment. Breathing apparatus. |
| Emergency procedures | Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--------------------------|
| Methods for cleaning up | Do not flush with water. |
|-------------------------|--------------------------|

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|--|
| Additional hazards when processed | Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use. |
| Precautions for safe handling | Do not eat, drink or smoke when using this product. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------------|--|
| Technical measures | Proper grounding procedures to avoid static electricity should be followed. |
| Storage conditions | Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. |
| Incompatible materials | Heat sources. Direct sunlight. |
| Storage temperature | 5 – 25 °C |
| Heat and ignition sources | Keep away from heat and direct sunlight. |
| Information on mixed storage | Do not store with DX powder cartridges. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

| Acetone (67-64-1) | |
|---|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Acetone |
| IOEL TWA | 1210 mg/m ³ |
| IOEL TWA [ppm] | 500 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Acetone |
| OEL TWA [1] | 1210 mg/m ³ |
| OEL TWA [2] | 500 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Ireland - Biological limit values | |
| Local name | Acetone |
| BLV | 50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific) |
| Regulatory reference | Biological Monitoring Guidelines (HSA, 2011) |
| 1-methoxypropan-2-ol (107-98-2) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | 1-Methoxypropanol-2 |
| IOEL TWA | 375 mg/m ³ |
| IOEL TWA [ppm] | 100 ppm |
| IOEL STEL | 568 mg/m ³ |
| IOEL STEL [ppm] | 150 ppm |
| Remark | Skin |
| Regulatory reference | COMMISSION DIRECTIVE 2000/39/EC |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| 1-methoxypropan-2-ol (107-98-2) | |
|---|---|
| Ireland - Occupational Exposure Limits | |
| Local name | Propylene glycol monomethyl ether |
| OEL TWA [1] | 375 mg/m ³ |
| OEL TWA [2] | 100 ppm |
| OEL STEL | 568 mg/m ³ |
| OEL STEL [ppm] | 150 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |
| Carbon dioxide (124-38-9) | |
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Carbon dioxide |
| IOEL TWA | 9000 mg/m ³ |
| IOEL TWA [ppm] | 5000 ppm |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC |
| Ireland - Occupational Exposure Limits | |
| Local name | Carbon dioxide |
| OEL TWA [1] | 9000 mg/m ³ |
| OEL TWA [2] | 5000 ppm |
| Remark | IOELV (Indicative Occupational Exposure Limit Values) |
| Regulatory reference | Chemical Agents Code of Practice 2021 |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
|--|--------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 773 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2035 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 699 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 608 mg/m ³ |
| Long-term - systemic effects, dermal | 699 mg/kg bodyweight/day |
| Acetone (67-64-1) | |
| DNEL/DMEL (Workers) | |
| Acute - local effects, inhalation | 2420 mg/m ³ |
| Long-term - systemic effects, dermal | 186 mg/kg bodyweight/day |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| | |
|--|--------------------------|
| Acetone (67-64-1) | |
| Long-term - systemic effects, inhalation | 1210 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 62 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 200 mg/m ³ |
| Long-term - systemic effects, dermal | 62 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 10.6 mg/l |
| PNEC aqua (marine water) | 1.06 mg/l |
| PNEC aqua (intermittent, freshwater) | 21 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 30.4 mg/kg dwt |
| PNEC sediment (marine water) | 3.04 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 29.5 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| 1-methoxypropan-2-ol (107-98-2) | |
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 553.5 mg/m ³ |
| Long-term - systemic effects, dermal | 183 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 369 mg/m ³ |
| Long-term - local effects, inhalation | 553.5 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 33 |
| Long-term - systemic effects, inhalation | 43.9 mg/m ³ |
| Long-term - systemic effects, dermal | 78 |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 10 mg/l |
| PNEC aqua (marine water) | 1 mg/l |
| PNEC aqua (intermittent, freshwater) | 100 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 52.3 mg/kg dwt |
| PNEC sediment (marine water) | 5.2 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 4.59 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. EN 166. EN 170

8.2.2.2. Skin protection

Hand protection:

In case of repeated or prolonged contact wear gloves

| Hand protection | | | | | |
|-------------------|----------------------|-------------------|----------------|--|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,4 | No supplementary information available | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

| Respiratory protection | | | |
|---------------------------------|-------------|----------------------------------|----------|
| Device | Filter type | Condition | Standard |
| Breathing apparatus with filter | A2/P3 | If conc. in air > exposure limit | EN 143 |

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|---------------|
| Physical state | Liquid |
| Colour | clear. |
| Appearance | Aerosol. |
| Odour | solvent-like. |
| Odour threshold | Not available |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| | |
|---|--|
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not available |
| Flammability | Extremely flammable aerosol. |
| Explosive properties | Product is not explosive. May form flammable/explosive vapour-air mixture. |
| Lower explosion limit | 0.6 vol % |
| Upper explosion limit | 13 vol % |
| Flash point | < 21 °C |
| Auto-ignition temperature | > 200 °C |
| Decomposition temperature | Not available |
| pH | Not available |
| Viscosity, kinematic | Not available |
| Solubility | Not available |
| Partition coefficient n-octanol/water (Log Kow) | Not available |
| Vapour pressure | 5500 hPa (20 °C) |
| Vapour pressure at 50°C | Not available |
| Density | 0.7 g/cm ³ |
| Relative density | Not available |
| Relative vapour density at 20°C | Not available |
| Particle characteristics | Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : > 80 %

9.2.2. Other safety characteristics

VOC content 747 g/l (99,5 %)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|---|
| Acute toxicity (oral) | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | Not classified (Based on available data, the classification criteria are not met) |

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

| | |
|---------------|-------------------------|
| LD50 oral rat | > 5840 mg/kg bodyweight |
|---------------|-------------------------|

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
|--|---|
| LD50 dermal rat | > 2920 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours) | > 25.2 mg/l/4h |
| Acetone (67-64-1) | |
| LD50 oral rat | 5800 mg/kg bodyweight |
| LD50 dermal rat | > 7400 mg/kg bodyweight |
| LC50 Inhalation - Rat (Vapours) | 76 mg/l/4h |
| 1-methoxypropan-2-ol (107-98-2) | |
| LD50 oral rat | 4016 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | May cause drowsiness or dizziness. |
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| Acetone (67-64-1) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| 1-methoxypropan-2-ol (107-98-2) | |
| STOT-single exposure | May cause drowsiness or dizziness. |
| STOT-repeated exposure | Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | Not classified (Based on available data, the classification criteria are not met) |
| Cleaning Spray 150 ml | |
| Vaporizer | Aerosol |

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Hazardous to the aquatic environment, short-term (acute) | Not classified (Based on available data, the classification criteria are not met) |
| Hazardous to the aquatic environment, long-term (chronic) | Toxic to aquatic life with long lasting effects. (Based on available data, the classification criteria are not met) |

| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
|--|--|
| LC50 - Fish [1] | 11.4 mg/l (96 h, Oncorhynchus mykiss, (OECD 203 method)) |
| EC50 - Crustacea [1] | 3 mg/l (48 h, Daphnia magna, (OECD 202 method)) |
| ErC50 algae | ≥ 10 mg/l (72 h, Pseudokirchneriella subcapitata, (OECD 201 method)) |
| NOEC (chronic) | 0.17 (21 d, Daphnia magna, (OECD 211 method), <tx:KFT_READ-ACROSS>) |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
|--|---|
| NOEC chronic fish | 2.045 mg/l (Quantitative structure-activity relationship (QSAR)) |
| NOEC chronic crustacea | 0.17 mg/l (21 d; Daphnia magna; (OECD 211 method)) |
| NOEC chronic algae | 3 mg/l (72 h, Pseudokirchneriella subcapitata, (OECD 201 method)) |
| Acetone (67-64-1) | |
| LC50 - Fish [1] | 5540 mg/l (96 h; Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 8800 mg/l (48 h; Daphnia pulex) |
| NOEC chronic crustacea | 2212 mg/l (28 d; Daphnia magna) |
| 1-methoxypropan-2-ol (107-98-2) | |
| LC50 - Fish [1] | 6812 mg/l (96 h; Leuciscus idus; DIN 38 412, part L15) |
| EC50 - Crustacea [1] | > 100 mg/l (48 h; Daphnia magna) |
| Carbon dioxide (124-38-9) | |
| LC50 - Fish [1] | 35 mg/l (96 h; Salmo gairdneri; Literature data) |
| 12.2. Persistence and degradability | |
| hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 98 % (28 d; (OECD 301F method)) |
| Acetone (67-64-1) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 90.9 % (28 d; (OECD 301B method)) |
| 1-methoxypropan-2-ol (107-98-2) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 96 % (28 d; (OECD 301E method)) |
| Carbon dioxide (124-38-9) | |
| Persistence and degradability | Not applicable. |
| 12.3. Bioaccumulative potential | |
| Acetone (67-64-1) | |
| Bioconcentration factor (BCF REACH) | 3 (calculated value) |
| Bioaccumulative potential | Bioaccumulation unlikely. |
| 1-methoxypropan-2-ol (107-98-2) | |
| Partition coefficient n-octanol/water (Log Kow) | 0.37 (20 °C) |
| Bioaccumulative potential | Bioaccumulation unlikely. |
| Carbon dioxide (124-38-9) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.83 (Measured) |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.4. Mobility in soil

| Acetone (67-64-1) | |
|---------------------------------|-------------------------|
| Surface tension | 23.3 mN/m (20 °C) |
| 1-methoxypropan-2-ol (107-98-2) | |
| Surface tension | 70.7 mN/m (1 g/L; 20°C) |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional legislation (waste) | Disposal must be done according to official regulations. |
| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | Container under pressure. Do not drill or burn even after use. |
| Additional information | Flammable vapours may accumulate in the container. |
| European List of Waste (LoW) code | 15 01 04 - metallic packaging |
| | 20 01 13* - solvents |
| HP Code | HP3 - "Flammable:" |
| | – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; |
| | – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; |
| | – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; |
| | – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; |
| | – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; |
| | – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. |
| | HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. |
| | HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. |
| | HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|-------------------------------------|---------|---------|---------|
| 14.1. UN number or ID number | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR | IMDG | IATA | RID |
|--|--|---------------------------------------|---------------------------------------|
| 14.2. UN proper shipping name | | | |
| AEROSOLS | AEROSOLS | Aerosols, flammable | AEROSOLS |
| Transport document description | | | |
| UN 1950 AEROSOLS, 2.1, (D) | UN 1950 AEROSOLS, 2.1 | UN 1950 Aerosols, flammable, 2.1 | UN 1950 AEROSOLS, 2.1 |
| 14.3. Transport hazard class(es) | | | |
| 2.1 | 2.1 | 2.1 | 2.1 |
| | | | |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |
| Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1. | | | |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

| | |
|---|--------------------|
| Classification code (ADR) | 5F |
| Special provisions (ADR) | 190, 327, 344, 625 |
| Limited quantities (ADR) | 1I |
| Excepted quantities (ADR) | E0 |
| Packing instructions (ADR) | P207, LP200 |
| Special packing provisions (ADR) | PP87, RR6, L2 |
| Mixed packing provisions (ADR) | MP9 |
| Transport category (ADR) | 2 |
| Special provisions for carriage - Packages (ADR) | V14 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | CV9, CV12 |
| Special provisions for carriage - Operation (ADR) | S2 |
| Tunnel restriction code (ADR) | D |

Transport by sea

| | |
|-----------------------------------|----------------------------------|
| Special provisions (IMDG) | 63, 190, 277, 327, 344, 381, 959 |
| Limited quantities (IMDG) | SP277 |
| Excepted quantities (IMDG) | E0 |
| Packing instructions (IMDG) | P207, LP200 |
| Special packing provisions (IMDG) | PP87, L2 |
| EmS-No. (Fire) | F-D |
| EmS-No. (Spillage) | S-U |
| Stowage category (IMDG) | None |
| Stowage and handling (IMDG) | SW1, SW22 |
| Segregation (IMDG) | SG69 |
| MFAG-No | 126 |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Air transport

| | |
|--|------------------|
| PCA Excepted quantities (IATA) | E0 |
| PCA Limited quantities (IATA) | Y203 |
| PCA limited quantity max net quantity (IATA) | 30kgG |
| PCA packing instructions (IATA) | 203 |
| PCA max net quantity (IATA) | 75kg |
| CAO packing instructions (IATA) | 203 |
| CAO max net quantity (IATA) | 150kg |
| Special provisions (IATA) | A145, A167, A802 |
| ERG code (IATA) | 10L |

Rail transport

| | |
|---|--------------------|
| Classification code (RID) | 5F |
| Special provisions (RID) | 190, 327, 344, 625 |
| Limited quantities (RID) | 1L |
| Excepted quantities (RID) | E0 |
| Packing instructions (RID) | P207, LP200 |
| Special packing provisions (RID) | PP87, RR6, L2 |
| Mixed packing provisions (RID) | MP9 |
| Transport category (RID) | 2 |
| Special provisions for carriage – Packages (RID) | W14 |
| Special provisions for carriage - Loading, unloading and handling (RID) | CW9, CW12 |
| Colis express (express parcels) (RID) | CE2 |
| Hazard identification number (RID) | 23 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | | |
|--|---|---|
| Reference code | Applicable on | Entry title or description |
| 3(a) | Cleaning Spray 150 ml ; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane ; Acetone ; 1-methoxypropan-2-ol | 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: 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 |
| 3(b) | Cleaning Spray 150 ml ; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane ; Acetone ; 1-methoxypropan-2-ol | 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: 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 |
| 3(c) | Cleaning Spray 150 ml ; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane | 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: Hazard class 4.1 |

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| | | |
|-----|---|--|
| 40. | Cleaning Spray 150 ml ; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane ; Acetone ; 1-methoxypropan-2-ol | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |
|-----|---|--|

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content 747 g/l (99,5 %)

Seveso Directive (Disaster Risk Reduction)

| Seveso III Part I (Categories of dangerous substances) | Qualifying quantity (tonnes) | |
|---|------------------------------|------------|
| | Lower-tier | Upper-tier |
| P3b FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, not containing flammable gases Category 1 or 2 nor flammable liquids category 1 | 5000 | 50000 |
| E2 Hazardous to the Aquatic Environment in Category Chronic 2 | 200 | 500 |

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

| Name | CAS-No. | Combined Nomenclature code (CN) | Combined Nomenclature code for mixture without constituents which would determine classification under another CN code |
|---------|---------|---------------------------------|--|
| Acetone | 67-64-1 | 2914 11 00 | ex 3824 99 92 |

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name | CN designation | CAS-No. | CN code | Category | Threshold | Annex |
|---------|----------------|---------|------------|------------|-----------|---------|
| Acetone | | 67-64-1 | 2914 11 00 | Category 3 | | Annex I |

15.1.2. National regulations

No additional information available

Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|--|----------|--|
| Section | Changed item | Change | Comments |
| | General | Modified | SDS EU format according to COMMISSION REGULATION (EU) 2020/878 |
| 1 | UFI | Added | |
| 2.2 | Labelling according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 3 | Composition/information on ingredients | Modified | |
| 8.2 | Personal protective equipment | Added | |
| 9 | Physical and chemical properties | Modified | |
| 11 | Toxicological information | Modified | |
| 12.1 | Ecotoxicological information | Modified | |
| 15 | Regulatory information | Added | |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| CAS-No. | Chemical Abstract Service number |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| ED | Endocrine disrupting properties |
| EC-No. | European Community number |
| EN | European Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| IOELV | Indicative Occupational Exposure Limit Value |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| N.O.S. | Not Otherwise Specified |



Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: | |
|-----------------------------|---|
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TLM | Median Tolerance Limit |
| TRGS | Technical Rules for Hazardous Substances |
| VOC | Volatile Organic Compounds |
| WGK | Water Hazard Class |
| vPvB | Very Persistent and Very Bioaccumulative |
| NOAEL | No-Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| LOAEL | Lowest Observed Adverse Effect Level |

Data sources

Source: European Chemicals Agency, <http://echa.europa.eu/>. manufacturer.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Aerosol 1 | Aerosol, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas |



Cleaning Spray 150 ml

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

SDS EU Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.