

Interflon Metal Clean (Aerosol)

Version number:
6.6
Replaces version: (5)

Date of issue
05.12.2022

Revision:
05.12.2022.

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

1.1 Product identifier

| | |
|---------------------------------|--|
| Trade name | Interflon Metal Clean (Aerosol) |
| Registration number (REACH) | not relevant (mixture) |
| Unique formula identifier - UFI | VD10-P0G9-M00X-8N46 |

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

| | |
|-------|----------------|
| Scope | cleaning agent |
|-------|----------------|

1.3 Details of the supplier of the safety data sheet

Interflon BV
Belder 47
4704 RK Roosendaal
Netherlands

Telephone: +31 (0)165 553911
e-mail: Service@Interflon.com
Website: www.Interflon.com

| | |
|---------------------------|-----------------------|
| e-mail (competent person) | Service@Interflon.com |
|---------------------------|-----------------------|

1.4 Emergency telephone number

| Poison centre | | | | | |
|---------------|--------------------|----------------------|-------------------|---------|----------------------------|
| Country | Name | Postal code/ city | Telephone | Telefax | Opening hours |
| Belgium | Centre Antipoisons | 1120 Bruxelles | +32 (0)70 245 245 | | Mon - Fri 00:00 - 23:00 |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 1 | Aquatic Acute 1 | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

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2.2 Label elements

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

- Signal word. danger

- Pictograms

GHS02, GHS07,
GHS09



- Hazard statements

| | |
|------|---|
| 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. |
| H410 | Very toxic to aquatic life with long lasting effects. |

- Precautionary statements

| | |
|-----------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/.... |
| P312 | Call a POISON CENTRE/doctor if you feel unwell. |
| P391 | Collect spillage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to industrial combustion plant. |

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- Hazardous ingredients for labelling Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, Isopropanol

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

| | |
|---------------------|-----------------------------------|
| Product description | Mixture of solvents and additives |
|---------------------|-----------------------------------|

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Hazardous ingredients

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
|---|--|-----------|---|---------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | CAS No 92128-66-0 EC No 921-024-6 REACH Reg. No 01-2119475514-35-xxxx | 25 – < 50 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411 | |
| Ethanol | CAS No 64-17-5 EC No 200-578-6 REACH Reg. No 01-2119457610-43-xxxx | 25 – < 50 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 | IARC: 1 |
| Isopropanol | CAS No 67-63-0 EC No 200-661-7 Index No 603-117-00-0 REACH Reg. No 01-2119457558-25 | 5 – < 10 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 | GHS-HC |
| Dioxolaan | CAS No 646-06-0 EC No 211-463-5 Index No 605-017-00-2 REACH Reg. No 01-2119490744-29-xxxx | 5 – < 10 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 | GHS-HC |
| carbon dioxide | CAS No 124-38-9 EC No 204-696-9 | 1 – < 5 | Press. Gas C / H280 | IOELV |

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

IOELV: Substance with a community indicative occupational exposure limit value

Regulation 648/2004/EC on detergents

| Wt% | Constituents | Weight % content (or range) |
|------|------------------------|-----------------------------|
| ≥30% | aliphatic hydrocarbons | 30 % and more |

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Water mist, Fire extinguishing powder, Carbon dioxide (CO₂), Alcohol resistant foam

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance. Use suitable breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Conditions of storage

Store in accordance with local/regional/national/international regulations. Keep container tightly closed and in a well-ventilated place.

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight. Keep in a cool place.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-------------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|----------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| BE | carbon dioxide | 124-38-9 | VL/VCD | 5,000 | 9,131 | 30,000 | 54,784 | | | Be-A | Moniteur Belge |
| BE | ethyl alcohol | 64-17-5 | VL/VCD | 1,000 | 1,907 | | | | | | Moniteur Belge |
| BE | 1,3-dioxolane | 646-06-0 | VL/VCD | 20 | 62 | | | | | | Moniteur Belge |
| BE | isopropyl alcohol | 67-63-0 | VL/VCD | 200 | 500 | 400 | 1,000 | | | | Moniteur Belge |
| EU | carbon dioxide | 124-38-9 | IOELV | 5,000 | 9,000 | | | | | | 2006/15/EC |

Notation

- Be-A** The agent releases a gas or vapor that in itself has no physiological effect but may decrease the oxygen level in the air. When the oxygen level drops below 17-18 % (vol/vol) the lack of oxygen causes suffocation that no prior symptom announces.
- Ceiling-C** ceiling value is a limit value above which exposure should not occur
- STEL** short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
- TWA** time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | DNEL | 2,035 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | DNEL | 773 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Isopropanol | 67-63-0 | DNEL | 500 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Isopropanol | 67-63-0 | DNEL | 888 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Dioxolaan | 646-06-0 | DNEL | 3.306 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Dioxolaan | 646-06-0 | DNEL | 1.18 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

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| Relevant PNECs of components of the mixture | | | | | | |
|---|----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| Isopropanol | 67-63-0 | PNEC | 140.9 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Isopropanol | 67-63-0 | PNEC | 140.9 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Isopropanol | 67-63-0 | PNEC | 2,251 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Isopropanol | 67-63-0 | PNEC | 552 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Isopropanol | 67-63-0 | PNEC | 552 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Isopropanol | 67-63-0 | PNEC | 28 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 19.7 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 1.97 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 77.7 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 7.77 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dioxolaan | 646-06-0 | PNEC | 2.62 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

General safety precautions

Use only in well-ventilated areas.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
Keep away from food, drink and animal feedingstuffs. Do not breathe gas/vapour/spray. Wash hands after use.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggles with side protection.

Skin protection

- Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Type of material. NBR: acrylonitrile-butadiene rubber.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

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Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | liquid, gaseous (spray aerosol) |
| Colour | colourless |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | 75 °C |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | 0.8 vol% - 15 vol% |
| Flash point | -12 °C |
| Auto-ignition temperature | 274 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not relevant |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|------------------|
| Vapour pressure | 246 hPa at 20 °C |
|-----------------|------------------|

Density and/or relative density

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| | |
|-------------------------|---|
| Density | 0.77 g/cm ³ at 20 °C |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

9.2 Other information

Information with regard to physical hazard classes

Aerosols

| | |
|------------------------------|------------------------------------|
| - Components (flammable) | 96.5 % |
| Other safety characteristics | there is no additional information |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Causes skin irritation.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|------------|----------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | LL50 | 15.8 mg/l | fish | 72 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | EL50 | 12 mg/l | aquatic invertebrates | 24 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | 92128-66-0 | EC50 | 0.64 mg/l | aquatic invertebrates | 48 h |
| Ethanol | 64-17-5 | LC50 | 15,400 mg/l | fish | 96 h |
| Ethanol | 64-17-5 | EC50 | 12,700 mg/l | fish | 96 h |
| Ethanol | 64-17-5 | ErC50 | 22,000 mg/l | algae | 96 h |
| Isopropanol | 67-63-0 | LC50 | 10,000 mg/l | fish | 96 h |
| Dioxolaan | 646-06-0 | LC50 | >95.4 mg/l | fish | 96 h |
| Dioxolaan | 646-06-0 | EC50 | >772 mg/l | aquatic invertebrates | 48 h |

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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|--|------------|----------|------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyc-lics, <5% n-hexane | 92128-66-0 | EL50 | 1.6 mg/l | aquatic invertebrates | 21 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyc-lics, <5% n-hexane | 92128-66-0 | EC50 | 0.23 mg/l | aquatic invertebrates | 21 d |
| Ethanol | 64-17-5 | LC50 | 1,806 mg/l | aquatic invertebrates | 10 d |
| Ethanol | 64-17-5 | ErC50 | 675 mg/l | algae | 4 d |
| Dioxolaan | 646-06-0 | EC50 | >100 mg/l | microorganisms | 3 h |

12.2 Persistence and degradability

| Degradability of components of the mixture | | | | | | |
|---|------------|------------------|------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method | Source |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyc-lics, <5% n-hex-ane | 92128-66-0 | oxygen depletion | 83 % | 16 d | | ECHA |
| Ethanol | 64-17-5 | oxygen depletion | 69 % | 5 d | | ECHA |
| Isopropanol | 67-63-0 | oxygen depletion | 53 % | 5 d | | ECHA |
| Dioxolaan | 646-06-0 | oxygen depletion | 3.7 % | 35 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | | |
|--|---------|-----|---------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| Ethanol | 64-17-5 | | -0.77 | 0.6211 |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packageings

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- Product
- 14 06 03* other solvents and solvent mixtures
- 15 01 04 metallic packaging
- 16 05 04* gases in pressure containers (including halons) containing hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|-------------|---------|
| ADR/RID/ADN | UN 1950 |
| IMDG-Code | UN 1950 |
| ICAO-TI | UN 1950 |

14.2 UN proper shipping name

| | |
|-------------|---------------------|
| ADR/RID/ADN | AEROSOLS |
| IMDG-Code | AEROSOLS |
| ICAO-TI | Aerosols, flammable |

14.3 Transport hazard class(es)

| | |
|-------------|---------|
| ADR/RID/ADN | 2 (2.1) |
| IMDG-Code | 2.1 |
| ICAO-TI | 2.1 |

14.4 Packing group

not assigned

14.5 Environmental hazards

| | |
|---|--|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyc- lics, <5% n-hexane |

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

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Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Classification code

5F

Danger label(s)

2.1, fish and tree



Environmental hazards

yes (hazardous to the aquatic environment)

Special provisions (SP)

190, 327, 344, 625

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

Transport category (TC)

2

Tunnel restriction code (TRC)

D

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant

yes (hazardous to the aquatic environment)

Danger label(s)

2.1, fish and tree



Special provisions (SP)

63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ)

E0

Limited quantities (LQ)

1 L

EmS

F-D, S-U

Stowage category

-

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards

yes (hazardous to the aquatic environment)

Danger label(s)

2.1



Special provisions (SP)

A145, A167

Excepted quantities (EQ)

E0

Limited quantities (LQ)

30 kg

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) | | | | |
|---|--|--------|-------------|----|
| Name of substance | Name acc. to inventory | CAS No | Restriction | No |
| Ethanol | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 | 3 |
| Ethanol | flammable / pyrophoric | | R40 | 40 |
| Isopropanol | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 | 3 |
| Isopropanol | flammable / pyrophoric | | R40 | 40 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 | 3 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | flammable / pyrophoric | | R40 | 40 |
| Dioxolaan | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | R3 | 3 |
| Dioxolaan | flammable / pyrophoric | | R40 | 40 |

Legend

R3

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 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 Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

- (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
- (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
- (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

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Legend

- R40
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,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'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 (2).
 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.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

Seveso Directive

| 2012/18/EU (Seveso III) | | | |
|-------------------------|--|---|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 200 | 56) |

Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Industrial Emissions Directive (IED)

| | |
|-------------|--------|
| VOC content | 96.5 % |
|-------------|--------|

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

| Pollutant release and transfer registers (PRTR) | | | |
|---|----------|---------|---|
| Name of substance | CAS No | Remarks | Threshold for releases to air (kg/year) |
| carbon dioxide | 124-38-9 | | 100 million |

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

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SZW list of carcinogenic, mutagenic and reproductive toxic substances, Ministry of Social Affairs and Employment

| Name of substance | CAS No | Wt% | Remarks | Carcinogenicity | Mutagenicity | Reproductive toxicity |
|-------------------|---------|-------|---------|-----------------|--------------|-------------------------|
| Ethanol | 64-17-5 | 28.95 | | carc | | repr F1A D1A B |

Legend

| | |
|------|---|
| B | Breastfeeding category |
| carc | Listed in "B List of carcinogenic substances" |
| D1A | Development category 1A |
| F1A | Fertility category 1A |
| repr | Listed in "NIET-limitative list of reproductive toxic substances" |

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| CA | DSL | not all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed |
| US | TSCA | not all ingredients are listed |

Legend

| | |
|------------|--------------------------------|
| DSL | Domestic Substances List (DSL) |
| REACH Reg. | REACH registered substances |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |

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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| log KOW | n-Octanol/water |
| Moniteur Belge | Arrêté royal modifiant l'arrêté royal du 11 mars 2002 relatif à la protection de la santé et de la sécurité des travailleurs contre les risques liés à des agents chimiques sur le lieu de travail |
| NLP | No-Longer Polymer |

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| UFI | Unique formula identifier |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H222 | Extremely flammable aerosol. |
| H225 | Highly 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. |
| H400 | Very toxic to aquatic life. |

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| Code | Text |
|------|--|
| H411 | Toxic to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.