

Page 1 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

AirCon Ready Refresh

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

Air conditioning cleaner Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

WAECO Germany WSE GmbH, Hollefeldstr. 63, 48282 Emsdetten, Germany Tel +49 2572 879-0 waeco@dometic.com waeco.com

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Dometic UK Ltd., Dometic House, The Brewery, Blandford St. Mary, Dorset DT11 9LS, United Kingdom, Tel. +44 344 626 0133

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (CCWA) +1 872 5888271 (CCWA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAerosol1H222-Extremely flammable aerosol.Aerosol1H229-Pressurised container: May burst if heated.

2.2 Label elements



Page 2 of 18

(GB)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

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| Aerosol | |
|---|----------------------------|
| Ethanol | |
| Registration number (REACH) | |
| Index | 603-002-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-578-6 |
| CAS | 64-17-5 |
| content % | 10-<20 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M- | Flam. Liq. 2, H225 |
| factors | Eye Irrit. 2, H319 |
| Specific Concentration Limits and ATE | Eye Irrit. 2, H319: >=50 % |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!



Page 3 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

Never pour anything into the mouth of an unconscious person!

Inhalation

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Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Typically no exposure pathway. Rinse the mouth thoroughly with water. Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. The following may occur: Irritation of the respiratory tract Coughing

Headaches Dizziness

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon

Toxic gases

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary. Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

Page 4 of 18

(GB)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Without adequate ventilation, formation of explosive mixtures may be possible. Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special regulations for aerosols!

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well-ventilated place.

Store cool.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Chemical Name | Ethanol | |
|----------------------------|--|--|
| WEL-TWA: 1000 ppm (1920 mg | /m3) WEL-STEL: | |
| Monitoring procedures: | Draeger - Alcohol 25/a Ethanol (81 01 631) | |
| - | - Compur - KITA-104 SA (549 210) | |

| - @B | | | | | | | |
|---|-------------------------|--------------|-----------------------------------|----------------|-------------|---------------|------|
| Page 5 of 18 Safety data sheet accordin Revision date / version: 26 | .02.2025 / 0002 | | nnex II (last ame | ended by Regu | lation (EU) |) 2020/878) | |
| Replacing version dated / Valid from: 26.02.2025 | version: 01.12.2021 / 0 | 0001 | | | | | |
| PDF print date: 26.02.2025 | 5 | | | | | | |
| AirCon Ready Refresh | | | | | | | |
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| | - | | sungsmittelgem EU project BC/0 | | | | |
| | | DFG Meth. N | r. 2 (D) (Loesun | gsmittelgemisc | he) - 2013 | - EU projec | t |
| | - | | R/000/2002-16 | | | | |
| | | | r. 3 (D) (Loesun | | | 8 - EU projec | t |
| | - | BC/CEN/ENT | R/000/2002-16 | | | | |
| BMGV: | | | | Other info | mation: | | |
| Chemical Name | Butane | | | | | | |
| WEL-TWA: 600 ppm (14 | 50 mg/m3) | WEL-STEI | .: 750 ppm (18 | 310 mg/m3) | | | |
| Monitoring procedures: | - | | A-221 SA (549 | | | · | |
| | - | OSHA PV201 | 0 (n-Butane) - 1 | | | | |
| BMGV: | | | | Other infor | mation: | | |
| Chemical Name | Propane | | | | | | |
| WEL-TWA: 1000 ppm (A | CGIH) | WEL-STEI | <u>.</u> : | | | | |
| Monitoring procedures: | - | Compur - KIT | A-125 SA (549 | 954) | | - I | |
| | - | OSHA PV207 | 7 (Propane) - 1 | | | | |
| BMGV: | | | | Other infor | mation: | | |
| Chemical Name | Isobutane | | | | | | |
| WEL-TWA: 1000 ppm (E | | WEL-STEI | : | | | | |
| Monitoring procedures: | - | Compur - KIT | A-113 SB(C) (5 | 49 368) | | 1 | |
| BMGV: | | | | Other info | mation: | | |
| | | | | | | | |
| | | | | | | | |
| Ethanol | | | | | | | |
| Area of application | Exposure route / | Effec | t on health | Descripto | Value | Unit | Note |
| | Environmental | | | r . | | | |
| | compartment | | | | | | |
| | Environment - fresh | water | | PNEC | 0,96 | mg/l | |
| | Environment - mari | - | | PNEC | 0,79 | mg/l | |
| | Environment - wate | , | | PNEC | 2,75 | mg/l | |
| | sporadic (intermitte | nt) | | | | | |

PNEC

PNEC

PNEC

PNEC

PNEC

DNEL

DNEL

DNEL

DNEL

DNEL

DNEL

DNEL

DNEL

580

3,6

0,63

0,38

2,9

950

114

87

206

950

343

950

1900

mg/l

mg/kg dry

mg/kg dry weight

g/kg feed

mg/kg dry

weight

mg/m3

mg/m3

mg/kg

mg/kg

bw/d

mg/m3

mg/kg bw/d

mg/m3

mg/m3

weight

release

freshwater

feed)

marine

Consumer

Consumer

Consumer

Consumer

Consumer

Workers / employees

Workers / employees

Workers / employees

Environment - sewage

Environment - sediment,

Environment - oral (animal

Environment - sediment,

treatment plant

Environment - soil

Human - dermal

Human - oral

Human - dermal

Human - dermal

Human - inhalation

Human - inhalation

Human - inhalation

Human - inhalation

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🐵 - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average)

Short term, local

Long term, systemic

Short term, local

Short term, local

effects

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Page 6 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL))

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

8.2 Exposure controls

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8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,35 Permeation time (penetration time) in minutes: > 480 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Gas mask filter ABEK (EN 14387), code colour brown, grey, yellow, green Observe wearing time limitations for respiratory protection equipment.

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Page 7 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Aerosol. Active substance: liquid. Colour: Colourless Odour: Characteristic Melting point/freezing point: There is no information available on this parameter. Boiling point or initial boiling point and boiling range: There is no information available on this parameter. Flammability: Does not apply to aerosols. Lower explosion limit: 1,8 Vol-% Upper explosion limit: 19 Vol-% Flash point: 11 °C Auto-ignition temperature: 365 °C Decomposition temperature: There is no information available on this parameter. pH: Mixture is non-soluble (in water). Kinematic viscosity: 1 mm2/s (20°C) Solubility: Insoluble Does not apply to mixtures. Partition coefficient n-octanol/water (log value): 853 kPa Vapour pressure: Density and/or relative density: 0,79 kg/l Relative vapour density: Does not apply to aerosols. Particle characteristics: Does not apply to aerosols. 9.2 Other information Explosives: There is no information available on this parameter. Oxidising liquids: There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions are known.

10.4 Conditions to avoid
Heating, open flame, ignition sources
Pressure increase will result in danger of bursting.
10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
10.6 Hazardous decomposition products
No decomposition when used as directed.

SECTION 11: Toxicological information



Page 8 of 18

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

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

Possibly more information on health effects, see Section 2.1 (classification). AirCon Ready Refresh Toxicity / effect Endpoint Value Unit Organism Test method Notes Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal n.d.a. route: Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye n.d.a. damage/irritation: Respiratory or skin n.d.a. sensitisation: Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): Specific target organ toxicity n.d.a. repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a.

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|----------|---------|---------------------------|--|----------------------|
| Acute toxicity, by oral route: | LD50 | 10470 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 51-124,7 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Carcinogenicity: | NOAEL | >3000 | mg/kg | Rat | OECD 451 (Carcinogenicity Studies) | 24 mon |

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Page 9 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| Reproductive toxicity: | NOAEL | 5200 | mg/kg bw/d | Rat | OECD 416 (Two- generation Reproduction Toxicity Study) | |
|--|-------|------|---------------|-----|---|---|
| Specific target organ toxicity - repeated exposure (STOT- RE): | NOAL | >20 | mg/l | Rat | OECD 403 (Acute Inhalation Toxicity) | Male |
| Specific target organ toxicity - repeated exposure (STOT- RE): | NOAEL | 1730 | mg/kg/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Female |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousnes s, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |

| Butane | | | | | | |
|----------------------------------|----------|--------|---------|-------------|----------------------|----------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation | - |
| | | | | | Test) | |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Human being | OECD 473 (In Vitro | Negative |
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Rat | OECD 474 | Negative |
| | | | | | (Mammalian | |
| | | | | | Erythrocyte | |
| | | | | | Micronucleus Test) | |
| Specific target organ toxicity - | NOAEC | 21,394 | mg/l | Rat | OECD 422 | |
| repeated exposure (STOT- | | | | | (Combined Repeated | |
| RE), inhalat.: | | | | | Dose Tox. Study with | |
| | | | | | the | |
| | | | | | Reproduction/Develop | |
| | | | | | m. Tox. Screening | |
| | | | | | Test) | |
| Aspiration hazard: | | | | | | No |

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Page 10 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| Symptoms: | | ataxia, breathing difficulties, drowsiness, unconsciousnes s, frostbite, disturbed boat |
|-----------|--|---|
| | | disturbed heart rhythm, headaches, |
| | | cramps, intoxication, dizziness, |
| | | nausea and vomiting. |

| - · · · | | | • • | T | |
|---------|--------|--|---|---|---|
| | | | | lest method | Notes |
| | | | | | |
| LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male, Analogous conclusion |
| | | | | | Not irritant |
| | | | | | Not irritant |
| | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| NOAEC | 21,641 | mg/l | | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test) | |
| NOAEL | 7,214 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test) | |
| LOAEL | 21,641 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test) | |
| | NOAEL | LC50 658 LC50 260000 NOAEC 21,641 NOAEL 7,214 | LC50 658 mg/l/4h LC50 260000 ppmV/4h NOAEC 21,641 mg/l NOAEL 7,214 mg/l | LC50658mg/l/4hRatLC50260000ppmV/4hRatImage: state | LC50658mg/l/4hRatLC50260000ppmV/4hRatLC50260000ppmV/4hRatImage: Construction of the second secon |

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Page 11 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| | | |
|-----------|------|----------------|
| Symptoms: | | breathing |
| | | difficulties, |
| | | unconsciousnes |
| | | s, frostbite, |
| | | headaches, |
| | | |
| | | cramps, |
| | | mucous |
| | | membrane |
| | | irritation, |
| | | dizziness, |
| | | nausea and |
| | | |
| | | vomiting. |

| Isobutane | | | | | | |
|--|----------|--------|---------|---------------------------|---|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Acute toxicity, by inhalation: | LC50 | 260000 | ppmV/4h | Rat | | Gasses, Male |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.: | NOAEL | 21,394 | mg/l | Rat | OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test) | |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | unconsciousnes s, frostbite, headaches, cramps, dizziness, nausea and vomiting. |

11.2. Information on other hazards

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------|----------|-------|------|----------|-------------|-----------------|
| Endocrine disrupting | | | | | | Does not apply |
| properties: | | | | | | to mixtures. |
| Other information: | | | | | | No other |
| | | | | | | relevant |
| | | | | | | information |
| | | | | | | available on |
| | | | | | | adverse effects |
| | | | | | | on health. |

| Ethanol | | | | | | |
|-------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |

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Page 12 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| Other information: | | Excessive |
|--------------------|--|------------------|
| | | alcohol |
| | | consumption |
| | | during |
| | | pregnancy |
| | | induces the |
| | | foetus alcohol |
| | | syndrome |
| | | (reduced |
| | | weight at birth, |
| | | physical and |
| | | mental |
| | | disorders)., |
| | | There is no |
| | | sign that this |
| | | syndrome is |
| | | also caused by |
| | | dermal or |
| | | inhalative |
| | | absorption., |
| | | Experiences on |
| | | persons. |

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| AirCon Ready Refresh | | | | | | | |
|--------------------------|----------|------|-------|------|----------|-------------|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | | | | | | | n.d.a. |
| 12.1. Toxicity to | | | | | | | n.d.a. |
| daphnia: | | | | | | | |
| 12.1. Toxicity to algae: | | | | | | | n.d.a. |
| 12.2. Persistence and | | | | | | | n.d.a. |
| degradability: | | | | | | | |
| 12.3. Bioaccumulative | | | | | | | n.d.a. |
| potential: | | | | | | | |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT | | | | | | | n.d.a. |
| and vPvB assessment | | | | | | | |
| 12.6. Endocrine | | | | | | | Does not apply |
| disrupting properties: | | | | | | | to mixtures. |
| 12.7. Other adverse | | | | | | | No information |
| effects: | | | | | | | available on |
| | | | | | | | other adverse |
| | | | | | | | effects on the |
| | | | | | | | environment. |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------|-----------|------|-------|------|------------------------|--|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 120h | 250 | mg/l | Brachydanio rerio | OECD 212 (Fish, Short- term Toxicity Test on Embryo and Sac-fry Stages) | |

Page 13 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| 12.1. Toxicity to daphnia: | EC50 | 48h | 5414 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
|---|-----------|-----|----------------------|------|--------------------|---|--|
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 10d | 9,6 | mg/l | Ceriodaphnia spec. | | References |
| 12.1. Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 97 | % | activated sludge | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | (-0,35) - (-0,32) | | | | Bioaccumulatio n is unlikely (LogPow < 1). |
| 12.3. Bioaccumulative potential: | BCF | | 0,66 - 3,2 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,00013 | | | | |
| 12.4. Mobility in soil: | Koc | | 1,0 | | | | Highestimated |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |
| Other organisms: | NOEC/NOEL | | 280 | mg/l | Lemna gibba | OECD 201 (Alga, Growth Inhibition Test) | |
| Other information: | COD | | 1,9 | g/g | | | |
| Other information: | BOD5 | | 1 | g/g | | | |

Butane Toxicity / effect Endpoint Time Value Unit Organism Test method Notes 12.1. Toxicity to fish: 12.1. Toxicity to LC50 96h 24,11 QSAR mg/l LC50 48h 14,22 mg/l QSAR daphnia: 12.3. Bioaccumulative Log Pow 2,98 A notable potential: biological accumulation potential is not to be expected (LogPow 1-3). 12.4. Mobility in soil: Not to be expected 12.5. Results of PBT No PBT and vPvB assessment substance, No vPvB substance Propane **Toxicity / effect** Endpoint Time Value Unit Organism **Test method** Notes

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Page 14 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

| 12.3. Bioaccumulative potential: | Log Pow | 2,28 | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
|---|---------|------|--|
| 12.5. Results of PBT and vPvB assessment | | | No PBT substance, No vPvB substance |

| Isobutane | | | | | | | |
|--|----------|------|-------|------|----------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 27,98 | mg/l | | | |
| 12.1. Toxicity to algae: | EC50 | 96h | 7,71 | mg/l | | | |
| 12.2. Persistence and degradability: | | | | | | | Readily biodegradable |
| 12.3. Bioaccumulative potential: | | | | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling 15 01 04 metallic packaging

SECTION 14: Transport information

1950

General statements Transport by road/by rail (ADR/RID) 14.1. UN number or ID number: 14.2. UN proper shipping name:

| 14.2. UN proper shipping name: | |
|-----------------------------------|----------------|
| UN 1950 AEROSOLS | |
| 14.3. Transport hazard class(es): | 2.1 |
| 14.4. Packing group: | - |
| 14.5. Environmental hazards: | Not applicable |
| Tunnel restriction code: | D |
| | |



GB Page 15 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh 5F Classification code: LQ: 1 L Transport category: 2 Transport by sea (IMDG-code) 14.1. UN number or ID number: 1950 14.2. UN proper shipping name: UN 1950 AEROSOLS 2.1 14.3. Transport hazard class(es): 14.4. Packing group: Not applicable 14.5. Environmental hazards: Marine Pollutant: Not applicable F-D, S-U EmS: Transport by air (IATA) 14.1. UN number or ID number: 1950 14.2. UN proper shipping name: UN 1950 Aerosols, flammable 2.1 14.3. Transport hazard class(es): 14.4. Packing group: Not applicable 14.5. Environmental hazards: 14.6. Special precautions for user Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage. 14.7. Maritime transport in bulk according to IMO instruments Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of | Qualifying quantity (tonnes) of |
|-------------------|------------------|----------------------------------|----------------------------------|
| | | dangerous substances as | dangerous substances as |
| | | referred to in Article 3(10) for | referred to in Article 3(10) for |
| | | the application of - Lower-tier | the application of - Upper-tier |
| | | requirements | requirements |
| P3a | 11.1 | 150 (netto) | 500 (netto) |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

| Directive 2012/18/EU ("Se | eveso III"), Annex I, Part 2 - | This product contains the | substances listed below: | | | |
|---------------------------|--|-----------------------------|----------------------------|-------------------------|--|--|
| Entry Nr | Dangerous substances | Notes to Annex I | Qualifying quantity | Qualifying quantity | | |
| | | | (tonnes) for the | (tonnes) for the | | |
| | | | application of - Lower- | application of - Upper- | | |
| | | | tier requirements | tier requirements | | |
| 18 | Liquefied flammable | 19 | 50 | 200 | | |
| | gases, Category 1 or 2 | | | | | |
| | (including LPG) and | | | | | |
| | natural gas | | | | | |
| The Notes to Annex 1 of | Directive 2012/18/EU, in pa | rticular those named in the | tables here and notes 1-6, | must be taken into | | |
| | The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into | | | | | |

account when assigning categories and qualifying quantities.



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Page 16 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh

Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004**

30 % and more aliphatic hydrocarbons

perfumes

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|--|---|
| Aerosol 1, H222 | Classification according to calculation procedure. |
| Aerosol 1, H229 | Classification based on the form or physical state. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

Aerosol — Aerosols Flam. Liq. — Flammable liquid Eye Irrit. — Eye irritation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

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Page 17 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council CAS Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of CLP substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) EC European Community ECHA European Chemicals Agency ECx. ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community **EINECS** European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances EN **European Norms** United States Environmental Protection Agency (United States of America) EPA $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer IATA International Air Transport Association International Bulk Chemical (Code) IBC (Code) IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLIDInternational Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships mg/kg bw mg/kg body weight mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight not applicable n.a. n.av. not available n.c. not checked n.d.a. no data available NIOSHNational Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org.

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Page 18 of 18 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 26.02.2025 / 0002 Replacing version dated / version: 01.12.2021 / 0001 Valid from: 26.02.2025 PDF print date: 26.02.2025 AirCon Ready Refresh OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT PE Polvethvlene PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning REACH the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the RID International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. TOC Total organic carbon **UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative The statements made here should describe the product with regard to the necessary safety precautions - they are

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

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These statements were made by:

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