

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

1.1 Product identifier

Trade name PROMAT CHEMICALS COCKPITSPRAY - 300 ml
Unique formula identifier (UFI) T3C0-F0UT-A00M-5YWT

Article number 4000 354710

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

Relevant identified uses General use
Washing and cleaning product

1.3 Details of the supplier of the safety data sheet

NORDWEST Handel AG
Robert-Schuman-Straße 17
44263 Dortmund
Germany

Telephone: +49 (0)231 2222-3001
Telefax: +49 (0)231 2222-3099
e-mail: sdb@nordwest.com
Website: www.nordwest.com

e-mail (competent person) sdb@nordwest.com

1.4 Emergency telephone number

| Poison centre | | | |
|---------------|---|------------------|--|
| Country | Name | Postal code/city | Telephone |
| Austria | Vergiftungsinformationszentrale (VIZ) | | +43 (0)1 406 43 43 |
| Germany | Gemeinsamen Giftinformationszentrum (GGIZ) der Laender Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thuringen c/o HELIOS Klinikum Erfurt | 99089 Erfurt | +49-361-730730 |
| Switzerland | Tox Info Suisse | | +145, 24h oder +41 44 251 51 51 |

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 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 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.

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.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients for labelling Naphtha (petroleum), hydrotreated light

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.











SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Identifier | Name of substance | Wt% | Classification acc. to GHS | Pictograms | Notes | Specific Conc. Limits |
|--|---|-----------|---|--|---------------------|-----------------------|
| CAS No 106-97-8 EC No 203-448-7 Index No 601-004-01-8 | butane | 50 – < 75 | Flam. Gas 1B / H221 Press. Gas C / H280 |   | C GHS-HC U(b) | |
| CAS No 64742-49-0 EC No 265-151-9 Index No 649-328-00-1 | Naphtha (petroleum), hydro- treated light | 25 – < 50 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |     | P(b) | |
| CAS No 74-98-6 EC No 200-827-9 Index No 601-003-00-5 REACH Reg. No 01-2119486944- 21 | propane | 10 – < 25 | Flam. Gas 1A / H220 Press. Gas L / H280 |   | GHS-HC U(c) | |
| CAS No 75-28-5 EC No 200-857-2 Index No 601-004-00-0 REACH Reg. No 01-2119485395- 27 | isobutane | 1 – < 5 | Flam. Gas 1A / H220 Press. Gas C / H280 |   | C GHS-HC U(b) | |

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 shall apply
U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged
U(c): The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged

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For full text of abbreviations: see SECTION 16.

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

Narcotic effects.

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, BC-powder

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.

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.

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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

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Packaging compatibilities

Keep only in original container.

Storage class (LGK) TRGS 510

LGK 2 B (aerosol dispensers and lighters)

7.3 Specific end use(s)

See section 16 for a general overview.

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/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
| DE | butane | 106-97-8 | AGW | 1,000 | 2,400 | 4,000 | 9,600 | | | | TRGS 900 |
| DE | propane | 74-98-6 | AGW | 1,000 | 1,800 | 4,000 | 7,200 | | | | TRGS 900 |
| DE | isobutane | 75-28-5 | AGW | 1,000 | 2,400 | 4,000 | 9,600 | | | | TRGS 900 |

Notation

Ceiling-C

STEL

TWA

ceiling value is a limit value above which exposure should not occur

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)

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)

hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components | | | | | | |
|---|------------|----------|---------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | DNEL | 5,306 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | DNEL | 13,964 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

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Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection**Hand protection**

Wear protective gloves. (Splash protection)

Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

Other protection measures

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

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Full face mask/half mask/quarter mask (EN 136/140).

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White).

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 | aerosol (spray aerosol) |
| Colour | transparent |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | -161.5 °C at 1,013 hPa |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | 1 vol% - 15 vol% |
| Flash point | -87 °C at 1,013 hPa |
| Auto-ignition temperature | 264 °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 4,200 hPa at 20 °C

Density and/or relative density

Density 0.6149 g/ml (calculated value)

Relative vapour density information on this property is not available

9.2 Other information

Information with regard to physical hazard classes there is no additional information

Other safety characteristics

Temperature class (EU, acc. to ATEX) T3 (maximum permissible surface temperature on the equipment: 200°C)

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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

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Toxic to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

12.2 Persistence and degradability

| Degradability of components | | | | | | |
|---|------------|------------------|------------------|------|--------|--------|
| Name of sub-stance | CAS No | Process | Degradation rate | Time | Method | Source |
| Naphtha (petro-leum), hydro-treated light | 64742-49-0 | oxygen depletion | 83 % | 10 d | | ECHA |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components | | | | |
|---|------------|-------|---------------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| butane | 106-97-8 | | 1.09 (pH value: 7, 20 °C) | |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | 501.2 | 3.6 (pH value: 7, 20 °C) | |
| propane | 74-98-6 | | 1.09 (pH value: 7, 20 °C) | |
| isobutane | 75-28-5 | | 1.09 (pH value: 7, 20 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

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/packagings

It is a dangerous waste; only packagings 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, (Recommendations)

Product

07 07 04* Other organic solvents, washing liquids and mother liquors

Product residues

16 05 04* Gases in pressure containers (including halons) containing hazardous substances
07 07 04* Other organic solvents, washing liquids and mother liquors

Packagings

15 01 04 Metallic packaging

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.

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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
- 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.

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



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

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)

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

none of the ingredients are listed

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)

none of the ingredients are listed

Water Framework Directive (WFD)

none of the ingredients are listed

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation 648/2004/EC on detergents

| Labelling of contents | |
|-----------------------------|-----------------------------|
| Constituents | Weight % content (or range) |
| aliphatic hydrocarbons | 30 % and more |
| perfumes (LIMONENE, CITRAL) | |

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 2 obviously hazardous to water

Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc. | Mass flow | Mass concentration | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5 | organic substances | | ≥ 25 wt% | 0.5 kg/h | 50 mg/m ³ | 3) |

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| EU | REACH Reg. | not all ingredients are listed |

Legend

REACH Reg. REACH registered substances

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 1.1 | Unique formula identifier (UFI): T3C0-F0UT-A00M-5YWT | | yes |
| 1.1 | | Unique formula identifier (UFI): T3C0-F0UT-A00M-5YWT | yes |
| 1.2 | Uses advised against: do not use for products which come into contact with foodstuffs | | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 1.3 | Details of the supplier of the safety data sheet: NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 Website: www.nordwest.com | Details of the supplier of the safety data sheet: NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 e-mail: sdb@nordwest.com Website: www.nordwest.com | yes |
| 1.3 | e-Mail (competent person): sdb@nordwest.com | | yes |
| 1.3 | | e-mail (competent person): sdb@nordwest.com | yes |
| 1.4 | | Poison centre: change in the listing (table) | yes |
| 2.1 | | Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table) | yes |
| 2.1 | Remarks: For full text of H-phrases: see SECTION 16. | | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.2 | | Pictograms: change in the listing (table) | yes |
| 2.3 | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | | yes |
| 2.2 | | Precautionary statements: change in the listing (table) | yes |
| 2.3 | Other hazards: There is no additional information. | Other hazards | yes |
| 2.3 | | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$. | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$. | yes |
| 3.1 | | Substances: Not relevant (mixture) | yes |
| 3.2 | | Hazardous ingredients acc. to EU regulation: change in the listing (table) | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 4.1 | Following skin contact: Wash with plenty of soap and water. Take off contaminated clothing. | Following skin contact: Wash with plenty of soap and water. | yes |
| 4.1 | Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice. | Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. | yes |
| 6.3 | Advice on how to clean up a spill: Collect spillage (universal binder). | | yes |
| 7.2 | Incompatible substances or mixtures: Observe hints for combined storage. | | yes |
| 7.2 | Consideration of other advice: Observe instructions for use. Keep out of reach of children. | | yes |
| 7.2 | • Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used. | Packaging compatibilities: Keep only in original container. | yes |
| 7.2 | | Storage class (LGK) TRGS 510: LGK 2 B (aerosol dispensers and lighters) | yes |
| 8.1 | National limit values | | yes |
| 8.1 | Occupational exposure limit values (Workplace Exposure Limits) | | yes |
| 8.1 | Relevant DNELs/DMELs/PNECs and other threshold levels | | yes |
| 8.1 | • relevant DNELs of components of the mixture | | yes |
| 8.2 | Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink | Individual protection measures (personal protective equipment): eye protection must be worn safety gloves must be worn do not eat or drink Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization. | yes |
| 9.1 | Appearance | | yes |
| 9.1 | Odour: characteristic | | yes |
| 9.1 | Other physical and chemical parameters | | yes |
| 9.1 | | Odour: characteristic | yes |
| 9.1 | Melting point/freezing point: not applicable (aerosol) | Melting point/freezing point: not determined | yes |
| 9.1 | Initial boiling point and boiling range: not applicable (aerosol) | Boiling point or initial boiling point and boiling range: -161.5 °C at 1,013 hPa | yes |
| 9.1 | Explosive limits | Lower and upper explosion limit: 1 vol% - 15 vol% | yes |
| 9.1 | • lower explosion limit (LEL): 1 vol% | | yes |
| 9.1 | • upper explosion limit (UEL): 15 vol% | | yes |
| 9.1 | Flash point: not applicable (aerosol) | Flash point: -87 °C at 1,013 hPa | yes |

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Revision: 2023-11-13

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 9.1 | Viscosity: not relevant (aerosol) | | yes |
| 9.1 | Explosive properties: none | | yes |
| 9.1 | Oxidising properties: none | | yes |
| 9.1 | | Decomposition temperature: not relevant | yes |
| 9.1 | | pH (value): not determined | yes |
| 9.1 | | Kinematic viscosity: not relevant | yes |
| 9.1 | | Density and/or relative density | yes |
| 9.1 | | Relative vapour density: information on this property is not available | yes |
| 9.2 | Other information: There is no additional information. | Other information | yes |
| 9.2 | | Information with regard to physical hazard classes: there is no additional information | yes |
| 9.2 | | Other safety characteristics | yes |
| 9.2 | | Temperature class (EU, acc. to ATEX): T3 (maximum permissible surface temperature on the equipment: 200°C) | yes |
| 10.4 | Physical stresses which might result in a hazardous situation and have to be avoided: high temperatures | | yes |
| 11.1 | • Acute toxicity of components of the mixture | | yes |
| 11.1 | | • Acute toxicity of components of the mixture: change in the listing (table) | yes |
| 11.1 | Summary of evaluation of the CMR properties: Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant. | | yes |
| 11.1 | Specific target organ toxicity (STOT) | | yes |
| 11.1 | | Germ cell mutagenicity: Shall not be classified as germ cell mutagenic. | yes |
| 11.1 | | Carcinogenicity: Shall not be classified as carcinogenic. | yes |
| 11.1 | | Reproductive toxicity: Shall not be classified as a reproductive toxicant. | yes |
| 11.2 | | Information on other hazards: There is no additional information. | yes |
| 12.1 | Toxicity: Toxic to aquatic life with long lasting effects. Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 2 (obviously hazardous to water) | Toxicity: Acc. to 1272/2008/EC: Toxic to aquatic life with long lasting effects. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany) | yes |
| 12.1 | Aquatic toxicity (acute) | | yes |

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|---------|--|---|-----------------|
| 12.1 | Aquatic toxicity (acute) of components of the mixture | | yes |
| 12.1 | | Aquatic toxicity (acute) of components of the mixture: change in the listing (table) | yes |
| 12.1 | Aquatic toxicity (chronic): May cause long-term adverse effects in the aquatic environment. | | yes |
| 12.2 | Degradability of components of the mixture | | yes |
| 12.3 | Bioaccumulative potential of components of the mixture | | yes |
| 12.2 | | Degradability of components: change in the listing (table) | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$. | yes |
| 12.6 | Endocrine disrupting potential: None of the ingredients are listed. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$. | yes |
| 13.1 | List of wastes: 16 05 04* gases in pressure containers (including halons) containing hazardous substances 15 01 10* packaging containing residues of or contaminated by hazardous substances | List of wastes, (Recommendations) | yes |
| 13.1 | | Product: 07 07 04* Other organic solvents, washing liquids and mother liquors | yes |
| 13.1 | | Product residues: 16 05 04* Gases in pressure containers (including halons) containing hazardous substances 07 07 04* Other organic solvents, washing liquids and mother liquors | yes |
| 13.1 | | Packagings: 15 01 04 Metallic packaging | yes |
| 14.1 | UN number: 1950 | UN number or ID number | yes |
| 14.1 | | ADR/RID/ADN: UN 1950 | yes |
| 14.1 | | IMDG-Code: UN 1950 | yes |
| 14.1 | | ICAO-TI: UN 1950 | yes |
| 14.2 | UN proper shipping name: AEROSOLS | UN proper shipping name | yes |
| 14.2 | | ADR/RID/ADN: AEROSOLS | yes |
| 14.2 | | IMDG-Code: AEROSOLS | yes |
| 14.2 | | ICAO-TI: Aerosols, flammable | yes |
| 14.3 | Class: 2 (gases) (aerosol) | | yes |

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|---------|---|---|-----------------|
| 14.3 | Subsidiary risk(s): 2.1 (flammability) | | yes |
| 14.3 | | ADR/RID/ADN: 2 (2.1) | yes |
| 14.3 | | IMDG-Code: 2.1 | yes |
| 14.3 | | ICAO-TI: 2.1 | yes |
| 14.4 | Packing group: not assigned to a packing group | Packing group: not assigned | yes |
| 14.5 | Environmental hazards | Environmental hazards: hazardous to the aquatic environment | yes |
| 14.7 | UN number: 1950 | | yes |
| 14.7 | Proper shipping name: AEROSOLS | | yes |
| 14.7 | Class: 2 | | yes |
| 14.7 | | Environmental hazards: yes (hazardous to the aquatic environment) | yes |
| 14.7 | UN number: 1950 | | yes |
| 14.7 | Proper shipping name: AEROSOLS | | yes |
| 14.7 | Class: 2.1 | | yes |
| 14.7 | | Marine pollutant: yes (hazardous to the aquatic environment) | yes |
| 14.7 | Danger label(s): 2.1 | Danger label(s): 2.1, fish and tree | yes |
| 14.7 | UN number: 1950 | | yes |
| 14.7 | Proper shipping name: Aerosols, flammable | | yes |
| 14.7 | Class: 2.1 | | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 14.7 | | Environmental hazards: yes (hazardous to the aquatic environment) | yes |
| 14.7 | | Danger label(s): change in the listing (table) | yes |
| 15.1 | • Restrictions according to REACH, Annex XVII | | yes |
| 15.1 | | • Restrictions according to REACH, Annex XVII: change in the listing (table) | yes |
| 15.1 | • Directive 75/324/EEC relating to aerosol dispensers | | yes |
| 15.1 | Classification of the gas/aerosol: extremely flammable | | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|---|-----------------|
| 15.1 | Labelling: keep out of reach of children 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 | | yes |
| 15.1 | Net contents by volume: 300 ml | | yes |
| 15.1 | Regulation 648/2004/EC on detergents | | yes |
| 15.1 | | Labelling of contents: change in the listing (table) | yes |
| 15.1 | | Regulation 648/2004/EC on detergents | yes |
| 15.1 | | Labelling of contents: change in the listing (table) | yes |
| 15.1 | | Regulation on persistent organic pollutants (POP): none of the ingredients are listed | yes |
| 15.1 | • Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany) | | yes |
| 15.1 | Storage class (LGK): 2 B (aerosol dispensers and lighters) | | yes |
| 15.1 | National inventories | | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |
| 15.1 | | National inventories | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |
| 16 | Key literature references and sources for data: - Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU - Regulation (EC) No. 1272/2008 (CLP, EU GHS) | 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). | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations. |
|------------------|--|
| 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). |
| AGW. | Workplace exposure limit. |
| 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). |
| 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. |
| 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). |
| ED. | Endocrine disruptor. |
| EINECS. | European Inventory of Existing Commercial Chemical Substances. |
| ELINCS. | European List of Notified Chemical Substances. |
| EmS. | Emergency Schedule. |
| Flam. Gas. | Flammable gas. |
| Flam. Liq. | Flammable liquid. |

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| Abbr. | Descriptions of used abbreviations. |
|-------------|--|
| GHS. | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. |
| 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. |
| LGK. | Lagerklasse (storage class according to TRGS 510, Germany). |
| Log KOW. | n-Octanol/water. |
| NLP. | No-Longer Polymer. |
| PBT. | Persistent, Bioaccumulative and Toxic. |
| 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. |
| TRGS. | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany). |
| TRGS 900. | Arbeitsplatzgrenzwerte (TRGS 900). |
| TWA. | Time-weighted average. |
| 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)

| | |
|-------|---|
| H220. | Extremely flammable gas. |
| H221. | Flammable gas. |
| 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. |
| H336. | May cause drowsiness or dizziness. |
| 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.