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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 05.07.2012 / 0008
Replaces revision of / Version: 13.02.2012 / 0007
Valid from: 05.07.2012
PDF print date: 05.07.2012
Teerentferner 400ML Art.: 1600

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Teerentferner 400ML
Art.: 1600

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

Relevant identified uses of the substance or mixture:

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC35 - Washing and cleaning products (including solvent based products)

Process category [PROC]:

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

PROC19 - Hand-mixing with intimate contact and only PPE available

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 2 - Formulation of preparations

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 5 - Industrial use resulting in inclusion into or onto a matrix

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8c - Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

ERC 8f - Wide dispersive outdoor use resulting in inclusion into or onto a matrix

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr

Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments)

F+, Extremely flammable

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Dangerous for the environment, R52-53
 Xn, Harmful, R65
 R66
 R67

2.2 Label elements

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

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments)



Symbols: F+
 Indications of danger:
 Extremely flammable
 R-phrases:
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.
 S-phrases:
 23 Do not breathe spray.
 46 If swallowed, seek medical advice immediately and show this container or label.
 51 Use only in well-ventilated areas.
 56 Dispose of this material and its container to hazardous or special waste collection point.
 Additions:
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
 Do not pierce or burn, even after use.
 Do not spray on a naked flame or any incandescent material.
 Keep away from sources of ignition - No smoking.
 Keep out of the reach of children.
 Without adequate ventilation, formation of explosive mixtures may be possible.
 Contains
 (R)-p-mentha-1,8-diene
 May produce an allergic reaction.

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.

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

REGULATION (EC) No 648/2004

30 % and more
 aliphatic hydrocarbons
 less than 5 %
 non-ionic surfactants

perfumes
 LIMONENE

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

| | |
|--|-----------------------|
| Hydrocarbons, C11-C12, isoalkanes, <2% aromatics | |
| Registration number (REACH) | 01-2119472146-39-XXXX |
| Index | --- |

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| | |
|--|--|
| EINECS, ELINCS, NLP | 918-167-1 (REACH-IT List-No.) |
| CAS | CAS --- |
| content % | 20-30 |
| Classification according to Directive 67/548/EEC | Dangerous for the environment, R53 Harmful, Xn, R65 R66 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 |

| | |
|--|---|
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | |
| Registration number (REACH) | -- |
| Index | --- |
| EINECS, ELINCS, NLP | 920-750-0 (REACH-IT List-No.) |
| CAS | CAS --- |
| content % | 20-<25 |
| Classification according to Directive 67/548/EEC | Highly flammable, F, R11 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 |

| | |
|--|---|
| Propan-2-ol | |
| Registration number (REACH) | -- |
| Index | 603-117-00-0 |
| EINECS, ELINCS, NLP | 200-661-7 |
| CAS | CAS 67-63-0 |
| content % | 5-10 |
| Classification according to Directive 67/548/EEC | Highly flammable, F, R11 Irritant, Xi, R36 R67 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| | |
|--|-------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | |
| Registration number (REACH) | -- |
| Index | 649-467-00-8 |
| EINECS, ELINCS, NLP | 265-157-1 |
| CAS | CAS 64742-54-7 |
| content % | 1-5 |
| Classification according to Directive 67/548/EEC | --- |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |

| | |
|---|---|
| Isopentane | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | -- |
| Index | 601-006-00-1 / |
| EINECS, ELINCS, NLP | 201-142-8 |
| CAS | CAS 78-78-4 |
| content % | 0,01-<1 |
| Classification according to Directive 67/548/EEC | Extremely flammable, F+, R12 Dangerous for the environment, N, R51 Dangerous for the environment, R53 Harmful, Xn, R65 R66 R67 |

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| | |
|--|--|
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 1, H224 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 STOT SE 3, H336 |
| (R)-p-mentha-1,8-diene | |
| Registration number (REACH) | -- |
| Index | 601-029-00-7 |
| EINECS, ELINCS, NLP | 227-813-5 |
| CAS | CAS 5989-27-5 |
| content % | 0,01-<1 |
| Classification according to Directive 67/548/EEC | Flammable, R10 Irritant, Xi, R38 Sensitizing, R43 Dangerous for the environment, N, R50 Dangerous for the environment, R53 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.
 If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult 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.
 Do not induce vomiting. Consult doctor immediately.
 Danger of aspiration
 In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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.

Headaches
 Dizziness
 Coordination disorders
 Mental confusion
 Effect on the central nervous system
 Narcotic effect.
 Drying of the skin.
 Dermatitis (skin inflammation)

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Cool container at risk with water.

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Water jet spray/foam/CO2/dry extinguisher
Unsuitable extinguishing media
High volume water jet

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
Explosive vapour/air mixture

5.3 Advice for firefighters

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
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.
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.
Active substance:
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
Do not wash away with water or watery cleaning agents.

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 inhalation of the vapours.
Keep away from sources of ignition - Do not smoke.
Take measures against electrostatic charging, if appropriate.
Do not use on hot surfaces.
Avoid contact with eyes or skin.
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.
Observe special regulations for aerosols!
Keep protected from direct sunlight and temperatures over 50°C.

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Store in a well ventilated place.
 Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):
 1200 mg/m³

| | | | |
|---|---|---|-------------------|
| Ⓢ | Chemical Name | Hydrocarbons, C11-C12, isoalkanes, <2% aromatics | Content %:20-30 |
| | WEL-TWA: 1200 mg/m ³ (>=C7 normal and branched chain alkanes) | WEL-STEL: 2(II) (AGW) | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | Content %:20-<25 |
| | WEL-TWA: 1200 mg/m ³ | WEL-STEL: --- | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Propan-2-ol | Content %:5-10 |
| | WEL-TWA: 400 ppm (999 mg/m ³) | WEL-STEL: 500 ppm (1250 mg/m ³) | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Isopentane | Content %:0,01-<1 |
| | WEL-TWA: 600 ppm (1800 mg/m ³) (WEL), 1000 ppm (3000 mg/m ³) (EC) | WEL-STEL: --- | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Oil mist, mineral | Content %: |
| | WEL-TWA: 5 mg/m ³ (ACGIH) | WEL-STEL: 10 mg/m ³ (ACGIH) | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Butane | Content %: |
| | WEL-TWA: 600 ppm (1450 mg/m ³) | WEL-STEL: 750 ppm (1810 mg/m ³) | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Propane | Content %: |
| | WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| | BMGV: --- | Other information: --- | |
| Ⓢ | Chemical Name | Isobutane | Content %: |
| | WEL-TWA: 1000 ppm (ACGIH) | WEL-STEL: --- | --- |
| | BMGV: --- | Other information: --- | |

Ⓢ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | |
|---|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 773 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 2035 | mg/m ³ | |

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| | | | | | | |
|----------|--------------------|-----------------------------|------|-----|------------|--|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 699 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 608 | mg/m3 | |
| | Human - oral | Long term, systemic effects | DNEL | 699 | mg/kg bw/d | |

| Propan-2-ol | | | | | | |
|---------------------|--|------------------|------------|-------|-------|-------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Workers / employees | Human - dermal | Long term | DNEL | 888 | mg/kg | (1 d) |
| Workers / employees | Human - inhalation | Long term | DNEL | 500 | mg/m3 | |
| Consumer | Human - dermal | Long term | DNEL | 319 | mg/kg | (1 d) |
| Consumer | Human - inhalation | Long term | DNEL | 89 | mg/m3 | |
| Consumer | Human - oral | Long term | DNEL | 26 | mg/kg | (1 d) |
| | Environment - freshwater | | PNEC | 140,9 | mg/l | |
| | Environment - marine | | PNEC | 140,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 552 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 552 | mg/kg | |
| | Environment - soil | | PNEC | 28 | mg/kg | |

8.2 Exposure controls

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.

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 374).

If applicable

Protective nitrile gloves (EN 374)

Protective gloves made of polyvinyl alcohol (EN 374)

Protective Viton gloves (EN 374)

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.

Filter A P2 (EN 14387), code colour brown, white

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Observe wearing time limitations for respiratory protection equipment.

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.

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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 |
| Colour: | Colourless |
| Odour: | Characteristic |
| Odour threshold: | Not determined |
| pH-value: | Not determined |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | n.a. |
| Flash point: | -60 °C |
| Evaporation rate: | n.a. |
| Flammability (solid, gas): | n.a. |
| Lower explosive limit: | 0,6 Vol-% |
| Upper explosive limit: | 8,5 Vol-% |
| Vapour pressure: | 3000 hPa (20°C) |
| Vapour density (air = 1): | Not determined |
| Density: | 0,66 g/ml (20°C) |
| Bulk density: | n.a. |
| Solubility(ies): | Not determined |
| Water solubility: | Insoluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Auto-ignition temperature: | 230 °C (Ignition temperature) |
| Decomposition temperature: | Not determined |
| Viscosity: | Not determined |
| Explosive properties: | Product is not explosive. When using: development of explosive vapour/air mixture possible. |
| Oxidising properties: | No |

9.2 Other information

| | |
|---------------------------|----------------|
| Miscibility: | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity: | Not determined |
| Surface tension: | Not determined |
| Solvents content: | 97,8 % |

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

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

See also section 7.

Oxidizing agents

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10.6 Hazardous decomposition products

See also section 5.2
 No decomposition when used as directed.

SECTION 11: Toxicological information

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

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| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|------|----------|-------------|--|
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Respiratory tract irritation: | | | | | | n.d.a. |
| Repeated dose toxicity: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |
| Other information: | | | | | | Classification according to calculation procedure. |

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|---|----------|-------|-------|----------|--|---|
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 427 (Skin Absorption - In Vivo Method) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3 | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Mild irritant (Analogous conclusion) |
| Respiratory or skin sensitisation: | | | | | | Not sensitising (Analogous conclusion) |
| Respiratory or skin sensitisation: | | | | | | Not sensitising |
| Germ cell mutagenicity: | | | | | | Analogous conclusion, Negative |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Analogous conclusion, Negative |
| Reproductive toxicity: | | | | | | Negative |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | Analogous conclusion, No |

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| | | | | | |
|--------------------|--|--|--|--|----------------------|
| Aspiration hazard: | | | | | Yes |
| Symptoms: | | | | | dizziness, headaches |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | |
|---|----------|-------|---------|----------|--------------------------------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2800 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >23,3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Mild irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitising |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | dizziness, unconsciousness, heart/circulatory disorders, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| Propan-2-ol | | | | | | |
|------------------------------------|----------|-------|---------|------------|-------------------------------|--|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4570 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | 12800 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | 30 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |
| Germ cell mutagenicity: | | | | | | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Symptoms: | | | | | | breathing difficulties, unconsciousness, vomiting, headaches, fatigue, dizziness, nausea |

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | |
|--|----------|-------|-------|----------|-------------|-----------------|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | Not sensitising |
| Aspiration hazard: | | | | | | Yes |

| Isopentane | | | | | | |
|------------------------------------|----------|-------|---------|-------------|-------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 1280 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Human being | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitising |

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|-------------------------|--|--|--|--|--|---|
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | dizziness, unconsciousness, diarrhoea, annoyance, headaches, cramps, circulatory disorders, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |

| (R)-p-mentha-1,8-diene | | | | | | |
|----------------------------------|----------|-------|-------|----------|-------------|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4400 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Symptoms: | | | | | | diarrhoea, rash, itching, gastrointestinal disturbances, mucous membrane irritation, nausea and vomiting. |

| Butane | | | | | | |
|--------------------------------|----------|-------|---------|----------|--|---|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 658 | mg/l/4h | Rat | | |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | ataxia, breathing difficulties, dizziness, unconsciousness, frostbite, disturbed heart rhythm, headaches, cramps, intoxication, dizziness, nausea and vomiting. |

| Propane | | | | | | |
|-------------------------------------|----------|-------|------|----------|--|--|
| Toxicity/effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Germ cell mutagenicity (bacterial): | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | breathing difficulties, unconsciousness, 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 | | |
| Serious eye damage/irritation: | | | | Rabbit | | Not irritant |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Symptoms: | | | | | | unconsciousness, frostbite, headaches, cramps, dizziness, nausea and vomiting. |

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SECTION 12: Ecological information

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

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|------------------------------------|----------|------|-------|------|----------|-------------|--|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | | | | | | | n.d.a. |
| Toxicity to daphnia: | | | | | | | n.d.a. |
| Toxicity to algae: | | | | | | | n.d.a. |
| Persistence and degradability: | | | | | | | The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents., Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| Bioaccumulative potential: | | | | | | | n.d.a. |
| Mobility in soil: | | | | | | | Product is slightly volatile. |
| Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| Other adverse effects: | | | | | | | n.d.a. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

| Hydrocarbons, C11-C12, isoalkanes, <2% aromatics | | | | | | | |
|--|----------|------|-------|------|-----------------------------------|--|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LL50 | 96h | >1000 | mg/l | (Oncorhynchus mykiss) | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to fish: | NOELR | 28d | 0,21 | mg/l | (Oncorhynchus mykiss) | QSAR | |
| Toxicity to daphnia: | EL50 | 48h | >1000 | mg/l | (Daphnia magna) | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to daphnia: | NOELR | 21d | 0,02 | mg/l | (Daphnia magna) | OECD 211 (Daphnia magna Reproduction Test) | |
| Toxicity to algae: | NOELR | 72h | 1000 | mg/l | (Pseudokirchneriella subcapitata) | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | EbL50 | 72h | >1000 | mg/l | (Pseudokirchneriella subcapitata) | OECD 201 (Alga, Growth Inhibition Test) | |
| Toxicity to algae: | ErL50 | 72h | >1000 | mg/l | (Pseudokirchneriella subcapitata) | OECD 201 (Alga, Growth Inhibition Test) | |

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|------------------------------------|--|-----|----|---|--|--|-------------------------------------|
| Persistence and degradability: | | 28d | 31 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | | | | | | | |
|---|------------|------|----------|------|---------------------------|--|-------------------------------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LL50 | 96h | 3 - 10 | mg/l | (Oncorhynchus mykiss) | OECD 203 (Fish, Acute Toxicity Test) | |
| Toxicity to daphnia: | EL50 | 48h | 4,6 - 10 | mg/l | (Daphnia magna) | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| Toxicity to algae: | NOEC/NO EL | 72h | 10 | mg/l | (Pseudomonas fluorescens) | OECD 201 (Alga, Growth Inhibition Test) | |
| Persistence and degradability: | | 28d | 98 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Analogous conclusion |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EL50 | 48h | 11,14 | mg/l | | | calculated value |
| Water solubility: | | | | | | | Insoluble |

| Propan-2-ol | | | | | | | |
|------------------------------------|----------|------|-------|------|---------------------------|---|-------------------------------------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 9640 | mg/l | (Pimephales promelas) | | |
| Toxicity to daphnia: | EC50 | 48h | 13299 | mg/l | (Daphnia magna) | | References |
| Toxicity to algae: | EC50 | 72h | >1000 | mg/l | (Desmodesmus subspicatus) | | |
| Persistence and degradability: | | 21d | 95 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | |
| Bioaccumulative potential: | Log Pow | | 0,05 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | |
| Mobility in soil: | Koc | | 1,1 | | | | expert judgement |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 18h | 5175 | mg/l | (Pseudomonas putida) | DIN 38412 T.8 | |
| Toxicity to bacteria: | EC50 | | >1000 | mg/l | (activated sludge) | | |
| Other information: | ThOD | | 2,4 | g/g | | | |
| Other information: | BOD5 | | 49 | % | | | |
| Other information: | COD | | 96 | % | | | References |
| Water solubility: | | | | | | | Soluble |

| Distillates (petroleum), hydrotreated heavy paraffinic | | | | | | | |
|--|----------|------|-------|------|----------|-------------|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |

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| | | | | | | | |
|--------------------------------|--|--|--|--|--|--|---------------------------|
| Persistence and degradability: | | | | | | | Not readily biodegradable |
| Water solubility: | | | | | | | Insoluble |

| Isopentane | | | | | | | |
|--------------------------------|----------|------|-------|------|-----------------------|-------------|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 3,1 | mg/l | (Oncorhynchus mykiss) | | |
| Toxicity to daphnia: | EC50 | 48h | 2,3 | mg/l | (Daphnia magna) | | |
| Persistence and degradability: | | | 100 | % | | | |

| (R)-p-mentha-1,8-diene | | | | | | | |
|--------------------------------|----------|------|-------|------|-----------------------|--|-------|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Toxicity to fish: | LC50 | 96h | 0,70 | mg/l | (Pimephales promelas) | | |
| Toxicity to daphnia: | EC50 | 48h | 0,42 | mg/l | (Daphnia magna) | | |
| Persistence and degradability: | | 28d | 92 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | |

| Butane | | | | | | | |
|------------------------------------|----------|------|-------|------|----------|-------------|---|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Bioaccumulative potential: | Log Pow | | 2,98 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Propane | | | | | | | |
|------------------------------------|----------|------|-------|------|----------|-------------|---|
| Toxicity/effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| Bioaccumulative potential: | Log Pow | | 2,28 | | | | A notable biological accumulation potential is not to be expected (LogPow 1-3). |
| 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. (2001/118/EC, 2001/119/EC, 2001/573/EC)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

Pay attention to local and national official regulations

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

Recycling

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

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General statements

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1950 AEROSOLS
 Transport hazard class(es): 2.1
 Packing group: -
 Classification code: 5F
 LQ (ADR 2011): 1 L
 LQ (ADR 2009): 2
 Environmental hazards: Not applicable
 Tunnel restriction code: D



Transport by sea (IMDG-code)

UN proper shipping name: AEROSOLS
 Transport hazard class(es): 2.1
 Packing group: -
 EmS: F-D, S-U
 Marine Pollutant: n.a
 Environmental hazards: Not applicable



Transport by air (IATA)

UN proper shipping name: Aerosols, flammable
 Transport hazard class(es): 2.1
 Packing group: -
 Environmental hazards: Not applicable



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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freight 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.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC 1999/13/EC 97,76% w/w

VOC-CH 0,257 kg (400 ml)

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 4, 5, 7, 8, 10, 11, 12, 13, 16

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

12 Extremely flammable.

36 Irritating to eyes.

38 Irritating to skin.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

51 Toxic to aquatic organisms.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

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65 Harmful: may cause lung damage if swallowed.
 66 Repeated exposure may cause skin dryness or cracking.
 11 Highly flammable.
 67 Vapours may cause drowsiness and dizziness.
 10 Flammable.
 H224 Extremely flammable liquid and vapour.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

Flam. Liq.-Flammable liquid
 Asp. Tox.-Aspiration hazard
 Aquatic Chronic-Hazardous to the aquatic environment - chronic
 STOT SE-Specific target organ toxicity - single exposure - narcotic effects
 Eye Irrit.-Eye irritation
 Skin Irrit.-Skin irritation
 Skin Sens.-Skin sensitization
 Aquatic Acute-Hazardous to the aquatic environment - acute

Any abbreviations and acronyms used in this document:

AC Article Categories
 acc., acc. to according, according to
 ACGIH American Conference of Governmental Industrial Hygienists
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOEL Acceptable Operator Exposure Level
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
 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
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
 BMGV Biological monitoring guidance value (EH40, UK)
 BOD Biochemical oxygen demand
 BSEF Bromine Science and Environmental Forum
 bw body weight
 CAS Chemical Abstracts Service
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
 CIPAC Collaborative International Pesticides Analytical Council
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 COD Chemical oxygen demand
 CTFA Cosmetic, Toiletry, and Fragrance Association
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 DT50 Dwell Time - 50% reduction of start concentration
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

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EC European Community
 ECHA European Chemicals Agency
 EEA European Economic Area
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax. Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane
 HGWP Halocarbon Global Warming Potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC Intermediate Bulk Container
 IBC (Code) International Bulk Chemical (Code)
 IC Inhibitory concentration
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LC lethal concentration
 LC50 lethal concentration 50 percent kill
 LCLo lowest published lethal concentration
 LD Lethal Dose of a chemical
 LD50 Lethal Dose, 50% kill
 LDLo Lethal Dose Low
 LOAEL Lowest Observed Adverse Effect Level
 LOEC Lowest Observed Effect Concentration
 LOEL Lowest Observed Effect Level
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships
 n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 NIOSH National Institute of Occupational Safety and Health (United States of America)
 NOAEC No Observed Adverse Effective Concentration
 NOAEL No Observed Adverse Effect Level
 NOEC No Observed Effect Concentration
 NOEL No Observed Effect Level
 ODP Ozone Depletion Potential
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PAH polycyclic aromatic hydrocarbon
 PBT persistent, bioaccumulative and toxic
 PC Chemical product category
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 POCP Photochemical ozone creation potential
 ppm parts per million
 PROC Process category
 PTFE Polytetrafluorethylene
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
 REACH-IT List-No. 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.

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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT Self-Accelerating Decomposition Temperature
SAR Structure Activity Relationship
SU Sector of use
SVHC Substances of Very High Concern
Tel. Telephone
ThOD Theoretical oxygen demand
TOC Total organic carbon
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
WHO World Health Organization
wwt wet weight

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.

These statements were made by:

Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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