

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 1/12/2018 Revision date: 8/16/2024 Supersedes version of: 3/22/2024 Version: 1.5

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

1.1. Product identifier

| Product form | : Substance (UVCB) |
|---------------|------------------------|
| Product name | : TEA TREE AUSTRALIAN |
| EC-No. | : 285-377-1, 614-679-1 |
| CAS-No. | : 68647-73-4 |
| Product code | : 50-6270-01 |
| Product group | : Trade product |

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

The Lebermuth Company 4004 Technology Drive 46628 South Bend, IN United States T 574-259-7000, F 574-258-7450 info@lebermuth.com, www.lebermuth.com

1.4. Emergency telephone number

Emergency number

: CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Acute toxicity (oral), Category 4 | H302 |
|---|------|
| Hazardous to the aquatic environment – Chronic Hazard, | H411 |
| Category 2 | |
| Aspiration hazard, Category 1 | H304 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Flammable liquids, Category 3 | H226 |
| Reproductive toxicity, Category 2 | H361 |
| Skin corrosion/irritation, Category 2 | H315 |
| Skin sensitisation, category 1B | H317 |
| Specific target organ toxicity – Single exposure, Category 3, | H336 |
| Narcosis | |
| Full test of LL and FULL statements, and a stimute | |

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

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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2.2. Label elements

| 272/2008 [CLP] | | |
|---|--|--|
| | | |
| GHS02 GHS07 GHS08 GHS09 | | |
| : Danger | | |
| : H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. | | |
| 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. | | |
| H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects. | | |
| : P201 - Obtain special instructions before use. | | |
| P202 - Do not handle until all safety precautions have been read and understood. | | |
| P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources | | |
| No smoking. | | |
| P233 - Keep container tightly closed. | | |
| P240 - Ground and bond container and receiving equipment. | | |
| P241 - Use explosion-proof electrical/ventilating/lighting equipment. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. | | |
| P264 - Wash hands, forearms and face thoroughly after handling. | | |
| P270 - Do not eat, drink or smoke when using this product. | | |
| P271 - Use only outdoors or in a well-ventilated area. | | |
| P272 - Contaminated work clothing should not be allowed out of the workplace. | | |
| P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing | | |
| protection. | | |
| P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. | | |
| P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. | | |
| P302+P352 - IF ON SKIN: Wash with plenty of water. | | |
| P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. | | |
| Rinse skin with water . | | |
| P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P308+P313 - IF exposed or concerned: Get medical advice/attention. | | |
| P312 - Call a POISON CENTRE or doctor if you feel unwell. | | |
| P321 - Specific treatment (see supplemental first aid instruction on this label). | | |
| P330 - Rinse mouth. | | |
| P331 - Do NOT induce vomiting. | | |
| P332+P313 - If skin irritation occurs: Get medical advice/attention. | | |
| P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. | | |
| P370+P378 - In case of fire: Use media other than water to extinguish. | | |
| P391 - Collect spillage. | | |
| P403+P233 - Store in a well-ventilated place. Keep container tightly closed. | | |
| P403+P235 - Store in a well-ventilated place. Keep cool. | | |
| P405 - Store locked up. | | |
| P501 - Dispose of contents/container to hazardous or special waste collection point, in | | |
| | | |

2.3. Other hazards

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

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SECTION 3: Composition/information on ingredients

3.1. Substances

| Substance type | : UVCB |
|----------------|------------------------|
| Custom name | : TEA TREE OIL |
| CAS-No. | : 68647-73-4 |
| EC-No. | : 285-377-1, 614-679-1 |

| Name | Product identifier | % |
|---------------|---|-----|
| TEA TREE OIL | CAS-No.: 68647-73-4 EC-No.: 285-377-1, 614-679- 1 | 100 |
| 3.2. Mixtures | | |

Not applicable

| SECTION 4: First aid measures | | |
|--|--|--|
| 4.1. Description of first aid measures | | |
| First-aid measures general | : Call a physician immediately. | |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. | |
| First-aid measures after skin contact | Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. | |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. | |
| First-aid measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. | |
| 4.2. Most important symptoms and effects, both acute and delayed | | |
| Symptoms/effects | : May cause drowsiness or dizziness. | |
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. | |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. | |
| Symptoms/effects after eye contact | : Eye irritation. | |
| Symptoms/effects after ingestion | : Risk of lung oedema. | |

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

Treat symptomatically.

| SECTION 5: Firefighting measures | | |
|--|---|--|
| 5.1. Extinguishing media | | |
| Suitable extinguishing media Unsuitable extinguishing media | Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream. | |
| 5.2. Special hazards arising from the substance or mixture | | |
| Fire hazard Explosion hazard | Flammable liquid and vapour.No direct explosion hazard. | |
| 5.3. Advice for firefighters | | |
| Firefighting instructions Protection during firefighting | Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. | |

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| SECTION 6: Accidental release measures | | | |
|---|---|--|--|
| 6.1. Personal precautions, protective equip | ment and emergency procedures | | |
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. | | |
| 6.1.1. For non-emergency personnel | | | |
| Protective equipment | : Wear recommended personal protective equipment. | | |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. | | |
| 6.1.2. For emergency responders | | | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | | |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so. | | |
| 6.2. Environmental precautions | | | |
| Avoid release to the environment. | | | |
| 6.3. Methods and material for containment and cleaning up | | | |
| For containment | : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. | | |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. | | |
| Other information | : Dispose of materials or solid residues at an authorized site. | | |
| 6.4. Reference to other sections | | | |
| For further information refer to section 13. | | | |

| SECTION 7: Handling and storage | |
|--|---|
| 7.1. Precautions for safe handling | |
| Additional hazards when processed Precautions for safe handling Hygiene measures | Not expected to present a significant hazard under anticipated conditions of normal use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Contaminated work clothing should not be |
| 7.2. Conditions for safe storage, including | allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. any incompatibilities |
| Technical measures Storage conditions Packaging materials | Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Store always product in container of same material as original container. |

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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| Colour Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature | Not available Flammable liquid and vapour. Not available Not available Sot available Not available |
|--|---|
| Auto-Ignition temperature Decomposition temperature | : Not available : Not available |
| рН | : Not available |
| Viscosity, kinematic | : Not available |
| Solubility | : Insoluble. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : Not available |
| Relative density | : 0.8919 (0.87 – 0.93) |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |

9.2. Other information

| 9.2.1. Information with regard to physical hazard classes |
|---|
| No additional information available |
| |

| 9.2.2. Other safety characteristics | |
|-------------------------------------|-----------------------|
| VOC content | : 48.5 % |
| Refractive index | : 1.478 (1.455 – 1.5) |

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

| SECTION 11: Toxicological in | ormation | |
|-----------------------------------|---|--|
| | | |
| 11.1. Information on hazard class | es as defined in Regulation (EC) No 1272/2008 | |
| Acute toxicity (oral) | : Harmful if swallowed. | |

- : Not classified
- : Not classified

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| TEA TREE OIL (68647-73-4) | |
|-----------------------------------|--|
| LD50 oral | 1900 mg/kg |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | : May cause drowsiness or dizziness. |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |

11.2. Information on other hazards

No additional information available

| SECTION 12: Ecological information | |
|--|--|
| 12.1. Toxicity | |
| Hazardous to the aquatic environment, short-term : (acute) | Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects. |
| 12.2. Persistence and degradability | |
| TEA TREE OIL (68647-73-4) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessment | |
| No additional information available | |
| 12.6. Endocrine disrupting properties | |
| No additional information available | |
| 12.7. Other adverse effects | |
| No additional information available | |

| SECTION 13: Disposal considerations | ; |
|---|---|
| 13.1. Waste treatment methods | |
| Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information | Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Flammable vapours may accumulate in the container. Do not re-use empty containers. |

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| SECTION 14: Transport informatio | n |
| In accordance with ADR / IMDG / IATA / ADN / | / RID |
| 14.1. UN number or ID number | |
| UN-No. (ADR) | : UN 2319 |
| UN-No. (IMDG) | : UN 2319 |
| UN-No. (IATA) | : UN 2319 |
| UN-No. (ADN) | : UN 2319 |
| UN-No. (RID) | : UN 2319 |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | : TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil) |
| Proper Shipping Name (IMDG) | : TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil) |
| Proper Shipping Name (IATA) | : Terpene hydrocarbons, n.o.s. (Tea Tree Oil) |
| Proper Shipping Name (ADN) | : TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil) |
| Proper Shipping Name (RID) | : TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil) |
| Transport document description (ADR) | : UN 2319 TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil), 3, III, (D/E) |
| Transport document description (IMDG) | : UN 2319 TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil), 3, III, MARINE |
| | POLLUTANT/ENVIRONMENTALLY HAZARDOUS (32°C c.c.) |
| Transport document description (IATA) | : UN 2319 Terpene hydrocarbons, n.o.s. (Tea Tree Oil), 3, III, ENVIRONMENTALLY |
| T (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 | |
| Transport document description (ADN) | : UN 2319 TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil), 3, III, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 2319 TERPENE HYDROCARBONS, N.O.S. (Tea Tree Oil), 3, III, ENVIRONMENTALLY |
| Transport document description (ND) | HAZARDOUS |
| 14.3. Transport hazard class(es) | |
| ADR | |
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR) | : 3 |
| 5 | |
| | NY NY |
| | $\langle \underline{\mathbf{Y}} \rangle \langle \underline{\mathbf{Y}}_2 \rangle$ |
| | |
| | |
| IMDG | |
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG) | : 3 |
| | |
| | |
| | $\langle - \rangle \langle + \rangle \rangle$ |
| | 3 |
| | \checkmark |
| ΙΑΤΑ | |
| Transport hazard class(es) (IATA) | : 3 |
| Danger labels (IATA) | : 3 |
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| | |
| | • • |
| ADN | |
| Transport hazard class(es) (ADN) | : 3 |
| Danger labels (ADN) | : 3 |
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| | |
| RID | |
| Transport hazard class(es) (RID) | : 3 |
| Danger labels (RID) | : 3 |
| | |
| | |
| 14.4. Packing group | |
| Packing group (ADR) | : 111 |
| Packing group (IMDG) | : III |
| Packing group (IATA) | : III |
| Packing group (ADN) | : 111 |
| Packing group (RID) | : 111 |
| 14.5. Environmental hazards | |
| Dangerous for the environment | : Yes |
| Marine pollutant | : Yes |
| Other information | : No supplementary information available |
| 14.6. Special precautions for user | |
| Overland transport | |
| Classification code (ADR) | : F1 |
| Limited quantities (ADR) | : 51 |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : MP19 |
| | |
| Portable tank and bulk container special provisions | : TP1, TP29 |
| (ADR) | |
| Tank code (ADR) | : LGBF |
| Vehicle for tank carriage | : FL |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Operation (ADR) | : S2 |
| Hazard identification number (Kemler No.) | : 30 |
| Orange plates | <u>30</u> 2319 |
| Tunnel restriction code (ADR) | : D/E |
| EAC code | : 3Y |
| Transport by sea | |
| Limited quantities (IMDG) | : 5L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1, TP29 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-D |
| Stowage category (IMDG) | : A |
| Flash point (IMDG) | : 32°C to 49°C c.c. |
| Properties and observations (IMDG) | : Colourless or yellowish liquids. Flashpoint: 32°C to 49°C c.c. Immiscible with water. |
| | |

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| Air | transport | |
|-----|-----------|--|
| | | |

| PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA) | : E1 : Y344 : 10L : 355 : 60L : 366 : 220L : 3L |
|--|--|
| Inland waterway transport Classification code (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN) | : F1 : 5 L : E1 : PP, EX, A : VE01 : 0 |
| Rail transport Classification code (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID) Tank codes for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID) | : TP1, TP29 : LGBF : 3 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | |
|--|---------------|
| Reference code | Applicable on |
| 3(a) | TEA TREE OIL |
| 3(b) | TEA TREE OIL |
| 3(c) | TEA TREE OIL |
| 40. | TEA TREE OIL |

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

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POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content

: 48.5 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List)

| Germany | |
|---|--|
| Water hazard class (WGK) | Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject to the Hazardous Incident Ordinance (12. BImSchV) |
| Netherlands | |
| SZW-lijst van kankerverwekkende stoffen | : TEA TREE AUSTRALIAN is listed |
| SZW-lijst van mutagene stoffen | : TEA TREE AUSTRALIAN is listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : The substance is not listed |
| Denmark | |
| Class for fire hazard | : Class III-1 |
| Store unit | : 50 liter |
| Classification remarks | : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |

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| CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardInternational Agency for Research on CancerInternational Agency for Research on CancerNOACCNo-Observed Adverse Effect LevelNOACCNo-Observed Effect ConcentrationOECLOccupational Exposure LimitPIECPIECPRECRegulations concerning the International Carriage of Dangerous Goods by RailSISSISSafety Data SheetSIFSurge CompoundsConcert CompoundsCoscanceVoCVolte | Abbreviations and a | Abbreviations and acronyms: | |
|---|---------------------|--|--|
| DELEDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Airi Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect ConcentrationNOECNo-Observed Effect ConcentrationNOECNo-Observed Effect Concentration and DevelopmentOELDOccupational Exposure LimitPBTPersitent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSISSatey Data SheetSIPSewage treatment plantThODThoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNo.S.No Otherwise SpecifiedVPSVery Persistent and Very Bioaccumulative | COD | Chemical oxygen demand (COD) | |
| EC-No.European Community numberEC50Median effective concentrationEC50European StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECOccupational Exposure LimitPBTOrganisation for Economic Co-operation and DevelopmentOELDOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPVBVery Persistent Bioaccumulative | DMEL | Derived Minimal Effect level | |
| CS00Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentOELDOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | DNEL | Derived-No Effect Level | |
| ENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentOELDOrganisation for Economic Co-operation and DevelopmentOELPresistent Bloaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNo.S.No Otherwise SpecifiedVeryBVery Persistent and Very Bioaccumulative | EC-No. | European Community number | |
| IARCInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOECNo-Observed Effect ConcentrationNOECOccupational Exposure LimitPBTOccupational Exposure LimitPBTPersitent Bloaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.Not Otherwise SpecifiedVery Besitent and Very Bioaccumulative | EC50 | Median effective concentration | |
| IATAInternational Air Transport AssociationINDGInternational Maritime Dangerous GoodsLC50Median Iethal concentrationLD50Median Iethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCValile Organic CompoundsCAS-No.Chemical Abstract Service numberNO.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | EN | European Standard | |
| INDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationOECOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | IARC | International Agency for Research on Cancer | |
| LC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | ΙΑΤΑ | International Air Transport Association | |
| LD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Not Otherwise SpecifiedNo.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | IMDG | International Maritime Dangerous Goods | |
| LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative | LC50 | Median lethal concentration | |
| NOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | LD50 | Median lethal dose | |
| NOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPBVery Persistent and Very Bioaccumulative | LOAEL | Lowest Observed Adverse Effect Level | |
| NOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Very Persistent and Very Bioaccumulative | NOAEC | No-Observed Adverse Effect Concentration | |
| OECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVery Persistent and Very Bioaccumulative | NOAEL | No-Observed Adverse Effect Level | |
| OELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise Specifiedvery BerVery Persistent and Very Bioaccumulative | NOEC | No-Observed Effect Concentration | |
| PBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | OECD | Organisation for Economic Co-operation and Development | |
| PNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | OEL | Occupational Exposure Limit | |
| RIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative | РВТ | Persistent Bioaccumulative Toxic | |
| SDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | PNEC | Predicted No-Effect Concentration | |
| STPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| ThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative | SDS | Safety Data Sheet | |
| TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative | STP | Sewage treatment plant | |
| VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative | ThOD | Theoretical oxygen demand (ThOD) | |
| CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative | TLM | Median Tolerance Limit | |
| N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative | VOC | Volatile Organic Compounds | |
| vPvB Very Persistent and Very Bioaccumulative | CAS-No. | Chemical Abstract Service number | |
| | N.O.S. | Not Otherwise Specified | |
| ED Endocrine disrupting properties | vPvB | Very Persistent and Very Bioaccumulative | |
| | ED | Endocrine disrupting properties | |

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

Safety Data Sheet

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

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

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