

COVERAGE FOR SWITZERLAND

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| SECTION 1 | DESIGNATION OF THE MIXTURE AND THE COMPANY |
|------------------|---|

1.1 Product identifier

Product name : TROPICAL TEAK OIL/SEALER CLEAR
Item number 96832
UFI KG5N-Y8KS-200S-354U

1.2 Uses of the mixture

SU21 Consumer product, Boat and ship maintenance

1.3 Details about the supplier

Supplier : TELL's Power AG
Bahnhofweg 2 + 4
CH-6405 Immensee

Phone : 041 850 77 44
E-Mail : info@tellspower.ch
Website : www.tellspower.ch

1.4 Emergency number

EMERGENCY PHONE TOX Center: **145** (24 hrs.)

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : STAR BRITE TEAK SEALER CLEAR
Product code : 96832

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

Application : SU21 Consumer product. Wood maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : Star Brite Europe Inc.
86 bis route de Brignais
69630 Chaponost, France
Telephone : +33-478-56-77-80
Fax : +33-472-39-97-96
E-mail : jp.kitzinger@starbrite-europe.com
Website : www.starbrite.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

FR - Telephone : 144, 118, 117

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service 145 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Flammable liquid, hazard category 3. Skin irritation, category 2. Aspiration hazard, category 1. Specific target organ toxicity after single exposure, category 3. Hazardous to the aquatic environment — Chronic category 2.

Human health hazards : May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May produce an allergic reaction.

Physical/chemical hazards : Flammable.

Environmental hazards : Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms :



Signal word : Danger

H- and P-phrases : H226 Flammable liquid and vapour.
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.
EUH208 Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208*.

| | |
|-------------|--|
| 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. |
| P370+P378 | In case of fire: Use carbondioxide, foam, dry chemical, water fog to extinguish. |
| P261 vapour | Avoid breathing vapours. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 gloves | Wear protective gloves. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P331 | Do NOT induce vomiting. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to an official chemical waste depot. |

Labelling of packagings where the contents do not exceed 125 ml:

Hazard pictograms :



Signal word : Danger

| | | | |
|------------------|---|-------------|--|
| H- and P-phrases | : | H304 | May be fatal if swallowed and enters airways. |
| | | H336 | May cause drowsiness or dizziness. |
| | | EUH208 | Contains ... May produce an allergic reaction. Reference is made to additional labelling for full text of EUH208*. |
| | | P101 | If medical advice is needed, have product container or label at hand. |
| | | P102 | Keep out of reach of children. |
| | | P261 vapour | Avoid breathing vapours. |
| | | P271 | Use only outdoors or in a well-ventilated area. |
| | | P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| | | P331 | Do NOT induce vomiting. |
| | | P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| | | P405 | Store locked up. |
| | | P501 | Dispose of contents/container to an official chemical waste depot. |

Additional labelling (for all packaging sizes)

: Contains: Distillates (petroleum), hydrotreated light ; Xylene (mixed isomers) . * Contains 2-Butanone oxime . May produce an allergic reaction.

Other information : According to regulation (EC) 1272/2008, Annex II, part 3, the packaging of this product shall carry a tactile warning of danger and a child-resistant fastening.

2.3. Other hazards

Other information : Contains SVHC substances. See section 3.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture. Ingredients which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with the criteria set out in Annex XIII of Regulation (EC) No 1907/2006: 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol

Information on hazardous substances:

| Substance name | Concentration (w/w) (%) | CAS nr. | EC number | Remark | REACH nr. |
|---|-------------------------|------------|-----------|--------|-----------|
| Distillates (petroleum), hydrotreated light | > 75 | 64742-47-8 | 265-149-8 | | |
| Xylene (mixed isomers) | 1 - < 5 | 1330-20-7 | 215-535-7 | | |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | 0,1 - < 1 | 25973-55-1 | 247-384-8 | | |
| Ethylbenzene | 0,1 - < 1 | 100-41-4 | 202-849-4 | | |
| 2-Butanone oxime | 0,1 - < 1 | 96-29-7 | 202-496-6 | | |
| n-Butyl acetate | 0,1 - < 1 | 123-86-4 | 204-658-1 | | |
| Zirconium 2-ethylhexanoate | 0,1 - < 1 | 22464-99-9 | 245-018-1 | | |

| Substance name | Hazard Class | H-phrases | Pictograms |
|---|--|--|----------------------------|
| Distillates (petroleum), hydrotreated light | Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; STOT SE 3; Aquatic Chronic 2 | H226; H304; H315; H336; H411 | GHS02; GHS07; GHS08; GHS09 |
| Xylene (mixed isomers) | Flam. Liq. 3; Asp. Tox. 1; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 2 | H226; H304; H332; H312; H315; H319; H335; H373 | GHS02; GHS07; GHS08 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | STOT RE. 2; Aquatic Chronic 4 | H373; H413 | GHS08 |
| Ethylbenzene | Flam. Liq. 2; Acute Tox. 4; Asp. Tox. 1; Eye Irrit. 2; Skin Irrit. 2; STOT SE 3 | H225; H332; H315; H319; H304; H335; H373 | GHS02; GHS07; GHS08 |
| 2-Butanone oxime | Carc. 2; Acute Tox. 4; Eye Dam. 1; Skin Sens. 1 | H351; H312; H318; H317 | GHS08; GHS05; GHS07 |
| n-Butyl acetate | Flam. Liq. 3; STOT SE 3 | H226; H336; EUH066 | GHS02; GHS07 |
| Zirconium 2-ethylhexanoate | Repr. 2 | H361d | GHS08 |

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.
- Ingestion : Do not induce vomiting. Give nothing to drink. Do rinse the mouth. As necessary give 1 or 2 spoonspoons of laxative (sodium sulphate). Never give anything by mouth to an unconscious person. Consult a doctor immediately if victim feels unwell.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

- Inhalation : May cause headache, drowsiness, dizziness and a feeling of sickness.
- Skin contact : Irritant. May produce an allergic reaction. May cause dry skin.
- Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : Will float on water and can be reignited. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Keep away from sources of ignition — No smoking. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents. Protect from sunlight. Keep away from food, drink and animal feedingstuffs.
 Recommended packaging : Keep only in the original container.
 Non recommended packaging : PE and PP.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

| Chemical name | Country | TWA 8 hour (mg/m ³) | STEL 15 min (mg/m ³) | Comments | Source |
|---|---------|---------------------------------|----------------------------------|------------|------------|
| Distillates (petroleum), hydrotreated light | | 1200 | - | | CEFIC-HSPA |
| Xylene (mixed isomers) | GB | 220 | 441 | Skin, BMGV | |
| Xylene (mixed isomers) | EC | 221 | 442 | Skin | |
| Ethylbenzene | GB | 441 | 552 | Skin | |
| Ethylbenzene | EC | 442 | 884 | Skin | |
| n-Butyl acetate | GB | 724 | 966 | - | |
| Zirconium 2-ethylhexanoate | GB | 5 | 10 | as Zr | |

Derived no-effect level (DNEL) for workers:

| Chemical name | Route of exposure | DNEL, short-term | | DNEL, long-term | |
|---|-------------------|-----------------------|-----------------------|------------------------|-----------------------|
| | | Local effect | Systemic effect | Local effect | Systemic effect |
| Xylene (mixed isomers) | Dermal | | | | 180 mg/kg bw/day |
| | Inhalation | | 289 mg/m ³ | | 77 mg/m ³ |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Dermal | | | | 0,3 mg/kg bw/day |
| | Inhalation | | | | 0,7 mg/m ³ |
| Ethylbenzene | Dermal | | | | 180 mg/kg bw/day |
| | Inhalation | | 293 mg/m ³ | | 77 mg/m ³ |
| 2-Butanone oxime | Dermal | | | | 1,3 mg/kg bw/day |
| | Inhalation | | | 3,33 mg/m ³ | 9 mg/m ³ |
| n-Butyl acetate | Inhalation | 960 mg/m ³ | 960 mg/m ³ | | 480 mg/m ³ |
| Zirconium 2-ethylhexanoate | Dermal | | | | 6,49 mg/kg bw/day |
| | Inhalation | | | | 5 mg/m ³ |

Derived no-effect level (DNEL) for consumers:

| Chemical name | Route of exposure | DNEL, short-term | DNEL, long-term |
|---------------|-------------------|------------------|-----------------|
| | | | |

| | | Local effect | Systemic effect | Local effect | Systemic effect |
|---|------------|--------------|-----------------|--------------|-------------------|
| Xylene (mixed isomers) | Dermal | | | | 108 mg/kg bw/day |
| | Inhalation | 174 mg/m3 | 174 mg/m3 | | 14,8 mg/m3 |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Oral | | | | 1,6 mg/kg bw/day |
| | Dermal | | | | 0,14 mg/kg bw/day |
| Ethylbenzene | Inhalation | | | | 0,17 mg/m3 |
| | Oral | | | | 0,14 mg/kg bw/day |
| 2-Butanone oxime | Inhalation | | | | 15 mg/m3 |
| | Oral | | | | 1,6 mg/kg bw/day |
| n-Butyl acetate | Dermal | | | | 0,78 mg/kg bw/day |
| | Inhalation | | | 2 mg/m3 | 2,7 mg/m3 |
| Zirconium 2-ethylhexanoate | Inhalation | 859,7 mg/m3 | 859,7 mg/m3 | 102,34 mg/m3 | 102,34 mg/m3 |
| | Dermal | | | | 3,25 mg/kg bw/day |
| | Inhalation | | | | 2,5 mg/m3 |
| | Oral | | | | 4,51 mg/kg bw/day |

Predicted no-effect concentration (PNEC):

| Chemical name | Route of exposure | Fresh water | Marine water | |
|---|--------------------|-------------|--------------|-----------------|
| Xylene (mixed isomers) | Water | 0,327 mg/l | 0,327 mg/l | |
| | Sediment | 12,46 mg/kg | 12,46 mg/kg | |
| | Intermittent water | | | 0,327 mg/l |
| | STP | | | 6,58 mg/l |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Soil | | | 2,31 mg/kg |
| | Water | 0,01 mg/l | 0,001 mg/l | |
| | Sediment | 451 mg/kg | 45,1 mg/kg | |
| | Intermittent water | | | 0,1 mg/l |
| Ethylbenzene | STP | | | 1 mg/l |
| | Soil | | | 90 mg/kg |
| | Water | 0,1 mg/l | 0,01 mg/l | |
| | Sediment | 13,7 mg/kg | 1,37 mg/kg | |
| n-Butyl acetate | Intermittent water | | | 0,1 mg/l |
| | STP | | | 9,6 mg/l |
| | Soil | | | 2,68 mg/kg |
| | Oral | | | 0,02 mg/kg food |
| Zirconium 2-ethylhexanoate | Water | 0,18 mg/l | 0,015 mg/l | |
| | Sediment | 0,981 mg/kg | 0,0981 mg/kg | |
| | Intermittent water | | | 0,36 mg/l |
| | STP | | | 35,6 mg/l |
| Zirconium 2-ethylhexanoate | Soil | | | 0,0903 mg/kg |
| | Water | 0,36 mg/l | 0,036 mg/l | |
| | Sediment | 6,37 mg/kg | 0,637 mg/kg | |
| | Intermittent water | | | 0,493 mg/l |
| | STP | | | 71,7 mg/l |
| | Soil | | | 1,06 mg/kg |

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Use of specific protective industrial clothing is not required for momentary use. Wear suitable protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345 in case of frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | | |
|---|-------------------------------|---|
| Appearance | : Liquid. | |
| Colour | : Light brown. | |
| Odour | : Characteristic. | |
| Odour threshold | : Not known. | |
| pH | : Not applicable. | Waterfree product. |
| Solubility in water | : Not soluble. | |
| Partition coefficient (n-octanol/water) | : Not known. | |
| Flash point | : 46 °C | |
| Flammability (solid, gas) | : Not applicable. | Liquid. See flashpoint. |
| Auto ignition temperature | : > 210 °C | |
| Boiling point/boiling range | : 152 °C | |
| Melting point/melting range | : < 0 °C | |
| Explosive properties | : None known. | Does not contain explosives. |
| Explosion limits (% in air) | : Not known. | Lower explosion limit in air (%): 0,6 (Distillates (petroleum), hydrotreated light) |
| | | Upper explosion limit in air (%): 7 |
| Oxidising properties | : Not oxidizing. | Does not contain oxidizing substances. |
| Decomposition temperature | : Not applicable. | |
| Viscosity (20°C) | : 1000 mm ² /sec | (1 mm ² /sec = 1cSt) |
| Viscosity (40°C) | : < 20,5 mm ² /sec | |
| Vapour pressure (20°C) | : Not known. | |
| Vapour density (20°C) | : > 1 | (air = 1) |
| Relative density (20°C) | : 0,93 g/ml | |
| Evaporation rate | : Not known. | (n-butyl acetate = 1) |

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 5 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause damage to organs. Target organ(s): Central nervous system. Effect(s): Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Irritant. May cause redness.
- Sensitisation : May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not met.

Ingestion

- Acute toxicity : Calculated LD50: > 2098 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. If swallowed, if any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38.3° C, shortness of breath, chest congestion or continued coughing or wheezing.
- Corrosion/irritation : May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria are not met.

Reprotoxicity : Development: Not classified - Based on available data, the classification criteria are not met.
Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

| Chemical name | Property | | Method | Test animal |
|---|-----------------------------------|--------------------------|---------------|------------------------|
| Distillates (petroleum), hydrotreated light | NOAEL (development) - estimate | 500 mg/kg.d | Read across | Rat |
| | LD50 (oral) - estimate | > 5000 mg/kg bw | Read across | Rat |
| | Skin sensitisation - estimate | Not sensitizing | Read across | Guinea pig |
| | NOAEL (fertility) - estimate | 1500 mg/kg.d | Read across | Rat |
| | Mutagenicity - estimate | Negative | Read across | Salmonella typhimurium |
| | Eye irritation - estimate | Non-irritant | Read across | Rabbit |
| | Skin irritation - estimate | Irritant | Read across | Rabbit |
| | Genotoxicity - estimate | Not genotoxic | Read across | Mouse |
| | NOAEL (oral) - estimate | 750 mg/kg bw/d | Read across | Rat |
| | NOAEL (inhalation) - estimate | > 1000 mg/m3 | Read across | Mouse |
| | NOEL (carcinogenicity) - estimate | Not carcinogenic | Read across | ---- |
| | LC50 (inhalation) - estimate | > 5280 mg/m3 | Read across | Rat |
| | LD50 (dermal) - estimate | > 2000 mg/kg bw | ---- | Rabbit |
| | Xylene (mixed isomers) | LD50 (dermal) - estimate | 1100 mg/kg bw | |
| NOAEL (developmental toxicity, inh.) | | 2171 mg/m3 | OECD 414 | Rat |
| NOAEL (fertility, inh.) | | > 2171 mg/m3 | ---- | Rat |
| NOEL (carcinogenicity, oral) | | > 500 mg/kg bw/d | OECD 451 | Rat |
| Genotoxicity - in vivo | | Not genotoxic | | Rat |
| Mutagenicity | | Negative | OECD 471 | |
| Genotoxicity - in vitro | | Not genotoxic | OECD 473 | |
| LD50 (oral) | | 4300 mg/kg bw | ---- | Rat |
| LD50 (dermal) | | > 5000 mg/kg bw | | Rabbit |
| NOAEL (development, oral) | | Not teratogenic | | |
| Eye irritation | | Slightly irritant | OECD 405 | Rabbit |
| Skin irritation | | Moderately irritant | OECD 404 | Rabbit |
| NOAEL (inhalation) | | > 3515 mg/m3 | ---- | Rat |
| NOAEL (oral) | | 150 mg/kg bw/d | OECD 408 | Rat |
| 2-Butanone oxime | Genotoxicity - in vitro | Not genotoxic | ---- | ---- |
| | NOAEL (fertility, oral) | 200 mg/kg bw/d | | Rat |
| | NOAEL (development, oral) | 200 mg/kg bw/d | | Rat |
| | Mutagenicity | Not mutagenic | ---- | |
| | LD50 (oral) | 2326 mg/kg bw | ---- | Rat |
| | LD50 (dermal) | 1000 mg/kg bw | | Rabbit |
| | LC50 (inhalation) | 20000 mg/m3 | | Rat |
| | Skin sensitisation | Sensitizing. | | Guinea pig |
| | Skin irritation | Moderately irritant | | Rabbit |
| | Eye irritation | Highly irritant | | Rabbit |
| | NOAEL (inhalation) | 1,02 mg/m3 | | |

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Toxic to aquatic organisms. Calculated LC50 (fish): 2 mg/l. Calculated EC50 (waterflea): 1 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for aquatic organisms.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility. Floats on water.

12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Contains: 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

| Chemical name | Property | | Method | Test animal |
|---|-------------------------------------|--------------|------------|--------------------------------|
| Distillates (petroleum), hydrotreated light | Ultimate aerobic biodegradation (%) | 58,6 % | OECD 301 F | |
| | NOEC (fish) - estimate | 0,098 mg/l.d | | Oncorhynchus mykiss |
| | NOEC (waterflea) - acute | 0,3 mg/l | OECD 202 | Daphnia magna |
| | NOEC (fish) | 2 mg/l | OECD 203 | Oncorhynchus mykiss |
| | LC50 (fish) - estimate | > 2 mg/l | OECD 203 | Oncorhynchus mykiss |
| | EC50 (waterflea) - estimate | 1,4 mg/l | OECD 202 | Daphnia magna |
| | IC50 (alga) - estimate | > 1 mg/l | OECD 201 | Pseudokirchnerella subcapitata |
| | NOEC (waterflea) - chronic | 0,48 mg/l.d | OECD 211 | Daphnia magna |
| | Log P(ow) | > 6 | | |
| | BCF | 537 | | |
| 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol | Ultimate aerobic biodegradation (%) | 2 % | OECD 301 B | |
| | NOEC (algae) | 0,1 mg/l | ----- | Pseudokirchnerella subcapitata |
| | IC50 (alga) | > 0,1 mg/l | ----- | Pseudokirchnerella subcapitata |
| | EC50 (waterflea) | > 0,083 mg/l | OECD 202 | Daphnia magna |
| | LC50 (fish) | > 100 mg/l | OECD 203 | Brachydanio rerio |
| | BCF | 4790 | | |

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.
- Waste water discharge : Do not dispose into the environment, in drains or in water courses.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : UN 1268

14.2. UN proper shipping name

Transport name : PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.
 Transport name (IMDG, IATA) : PETROLEUM DISTILLATES, N.O.S. (Distillates (petroleum), hydrotreated light)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

- Class : 3
- Classification code : F1
- Packaging group : III
- Danger label : 3 + the "environmentally hazardous substance" mark.
- Tunnel restriction code : D/E



Other information : Not intended for carriage by tank-vessels on inland waterways. Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IMDG (sea)

- Class : 3
- Packaging group : III
- EmS (fire / spill) : F - E / S - E
- Marine pollutant : Yes
- Other information : Packagings with a quantity of 5 l or less for liquids or 5 kg, or less for solids need not be marked with the environmentally hazardous substance mark.

IATA (air)

- Class : 3

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

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

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

| | |
|-----------|---|
| ADR | : European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | : Acute Toxicity Estimate |
| CLP | : Classification, Labeling & Packaging |
| CMR | : Carcinogenic, Mutagenic or toxic for Reproduction |
| EEC | : European Economic Community |
| GHS | : Globally Harmonized System of Classification and Labelling of Chemicals |
| IATA | : International Air Transport Association |
| IBC code | : International Bulk Chemical Code |
| IMDG | : International Maritime Dangerous Goods Code |
| LD50/LC50 | : Lethal Dose/Concentration for 50% of a population |
| MAC | : Maximum Allowable Concentration |
| MARPOL | : International Convention for the Prevention of Pollution From Ships |
| NO(A)EL | : No Observed (Adverse) Effect Level |
| OECD | : Organisation for Economic Co-operation and Development |
| PBT | : Persistent, Bioaccumulative and Toxic |
| PC | : Chemical product category |
| PT | : Product type |
| REACH | : Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STP | : Sewage Treatment Plant |
| SU | : Sector of Use |
| TWA/STEL | : Time-Weighted Average/Short Term Exposure Limit |
| UN | : United Nations |
| VOC | : Volatile Organic Compounds |
| vPvB | : Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

| | |
|---------------|--------------------------|
| Flam. Liq. 3 | : On basis of test data. |
| Skin Irrit. 2 | : Calculation method. |

STOT SE 3 : Calculation method.
Asp. Tox. 1 : On basis of test data. Calculation method.
Aquatic Chronic 2 : Calculation method.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 2 : Flammable liquid, category 2.
Flam. Liq. 3 : Flammable liquid, hazard category 3.
Acute Tox. 4 : Acute toxicity, category 4.
Skin Irrit. 2 : Skin irritation, category 2.
Eye Dam. 1 : Serious eye damage, category 1.
Eye Irrit. 2 : Eye irritation, category 2.
Skin Sens. 1 : Skin sensitization, category 1.
Carc. 2 : Carcinogen, category 2.
Repr. 2 : Reproductive toxicity, category 2.
STOT SE 3 : Specific target organ toxicity after single exposure, category 3.
STOT RE 2 : Specific target organ toxicity — repeated exposure, category 2.
Asp. Tox. 1 : Aspiration hazard, category 1.
Aquatic Chronic 2 : Hazardous to the aquatic environment — Chronic category 2.
Aquatic Chronic 4 : Hazardous to the aquatic environment — Chronic category 4.

Full text of H-phrases mentioned in section 3:

H225 : Highly flammable liquid and vapour.
H226 : Flammable liquid and vapour.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer.
H361 : Suspected of damaging fertility or the unborn child.
H373 : May cause damage to organs through prolonged or repeated exposure.
H411 : Toxic to aquatic life with long lasting effects.
H413 : May cause long lasting harmful effects to aquatic life.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Number format : ", " used as decimal separator.

End of safety data sheet.