

Page 1 of 13 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.07.2018 / 0013 Replacing version dated / version: 01.10.2015 / 0012 Valid from: 12.07.2018 PDF print date: 13.07.2018 Marine 2T Motor Oil 5 L Art.: 25020

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

Marine 2T Motor Oil 5 L

Art.: 25020

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

Two-stroke motor oil 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]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

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

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

(GB)

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

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

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

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture



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

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH210-Safety data sheet available on request.

2.3 Other hazards

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

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

Product can compose a film on the water surface, which can prevent oxygen exchange.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics | |
|--|-------------------------------|
| Registration number (REACH) | 01-2119456620-43-XXXX |
| Index | |
| EINECS, ELINCS, NLP | 926-141-6 (REACH-IT List-No.) |
| CAS | |
| content % | 15-25 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |
| | |
| Butene, homopolymer | |
| Registration number (REACH) | |
| Index | |
| EINECS, ELINCS, NLP | 500-004-7 (NLP) |
| CAS | 9003-29-6 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Aquatic Chronic 4, H413 |
| | |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | |
| Registration number (REACH) | 01-2119471299-27-XXXX |
| Index | 649-474-00-6 |
| EINECS, ELINCS, NLP | 265-169-7 |
| CAS | 64742-65-0 |
| content % | 1-5 |
| Classification according to Regulation (EC) 1272/2008 (CLP) | Asp. Tox. 1, H304 |
| | |

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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation



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

Remove person from danger area.

Skin contact

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

Eye contact

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

Keep Data Sheet available.

Ingestion

Do not induce vomiting. Consult doctor immediately. Danger of aspiration

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. The following may occur:

Drying of the skin. Irritation of the skin.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

CO2 Foam

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 Oxides of nitrogen Flammable vapour/air mixtures

5.3 Advice for firefighters

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

Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage



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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

Observe directions on label and instructions for use. Take measures against electrostatic charging, if appropriate. If applicable:

Use explosion-proof equipment.

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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

Not to be stored in gangways or stair wells. Store product closed and only in original packing.

Protect against moisture and store closed.

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, C1 ² | 1-C14, n-alkanes, | , isoalkanes, cycli | cs, <2% aromatics | Content %:15-25 |
|---------------------------------|-------------------------------|-------------------|---------------------|--------------------|-----------------|
| WEL-TWA: 1200 mg/m3 (>=C7 nc | ormal and branched | WEL-STEL: 2 | 2(II) (AGW) | | |
| chain alkanes) | | | | | |
| Monitoring procedures: | - [| Draeger - Hydroca | arbons 2/a (81 03 | 581) | |
| | - [| Draeger - Hydroca | arbons 0,1%/c (81 | 03 571) | |
| | - (| Compur - KITA-18 | 37 S (551 174) | | |
| BMGV: | | | | Other information: | |
| Chemical Name | Distillates (petroleu | im) solvent-dewa | axed heavy paraff | inic | Content %:1-5 |
| WEL-TWA: 5 mg/m3 (oil mist, min | | | | t, mineral, ACGIH) | |
| Monitoring procedures: | - [| | arbons 2/a (81 03 | | |
| | - [| Draeger - Hydroca | arbons 0,1%/c (81 | 03 571) | |
| | - (| Compur - KITA-18 | 37 S (551 174) | | |
| 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).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. 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.

8.2 Exposure controls

| Distillates (petroleum), solve | nt-dewaxed heavy paraffinic | | | | | |
|--------------------------------|-------------------------------------|------------------|------------|-------|------------|------|
| Area of application | Exposure route / | Effect on health | Descriptor | Value | Unit | Note |
| | Environmental | | | | | |
| | compartment | | | | | |
| | Environment - oral (animal feed) | | PNEC | 9,33 | mg/kg feed | |
| | | | | | | |



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| Consumer | Human - inhalation | Long term, local effects | DNEL | 1.2 | ma/m3 |
|---------------------|--------------------|--------------------------|------|-----|-------|
| | | | | - , | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 5.4 | ma/m3 |
| | | | | -,. | |

8.2.1 Appropriate engineering controls

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

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

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

These are specified by e.g. BS EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

 $\label{eq:keep} \ensuremath{\mathsf{Keep}}\xspace \ensuremath{\mathsf{away}}\xspace \ensuremath{\mathsf{from}}\xspace \ensuremath{\mathsf{form}}\xspace \ensuremath{\mathsf{from}}\xspace \ensuremath{$

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

Eye/face protection:

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Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection: Protective nitrile gloves (EN 374) Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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

Respiratory protection: If OES or MEL is exceeded. Filter A P2 (EN 14387), code colour brown, white 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. 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: Colour: Odour: Liquid Brown Characteristic



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Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Viscosity: Explosive properties: Oxidising properties:

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9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Not determined Not determined Not determined Not determined 110 °C Not determined Not determined Not determined Not determined Not determined Not determined 0,875 g/ml Not determined Not determined Insoluble Not determined Not determined Not determined 52 mm2/s (40°C) 8,7 mm2/s (100°C) Not determined Not determined

Not determined Not determined Not determined Not determined Not determined

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. Protect from humidity. Open flame, ignition sources **10.5 Incompatible materials** See also section 7. Avoid contact with strong oxidizing agents. Avoid contact with other chemicals. **10.6 Hazardous decomposition products** See also section 5.2 No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

| Marine 2T Motor Oil 5 L | | | | | | |
|----------------------------------|----------|-------|------|----------|-------------|--------|
| Art.: 25020 | | | | | | |
| 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. |
| | | | | | | |



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| | | |
|----------------------------------|------|----------------|
| Skin corrosion/irritation: | | n.d.a. |
| Serious eye damage/irritation: | | n.d.a. |
| Respiratory or skin | | n.d.a. |
| sensitisation: | | |
| Germ cell mutagenicity: | | n.d.a. |
| Carcinogenicity: | | n.d.a. |
| Reproductive toxicity: | | n.d.a. |
| Specific target organ toxicity - | | n.d.a. |
| single exposure (STOT-SE): | | |
| Specific target organ toxicity - | | n.d.a. |
| repeated exposure (STOT-RE): | | |
| Aspiration hazard: | | n.d.a. |
| Symptoms: | | n.d.a. |
| Other information: | | Classification |
| | | according to |
| | | calculation |
| | | procedure. |

| 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 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >5000 | mg/m3/8h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute Dermal Irritation/Corrosion) | Analogous conclusion, Drying of the skin., Dermatitis (skin inflammation) |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Analogous conclusion, Slightly irritant |
| Respiratory or skin sensitisation: | | | | Rat | | Not sensitizising |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | in vivo | Negative |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Analogous conclusion, Negative |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Analogous conclusion, Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Analogous conclusion, No indications of such an effect. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion, Not to be expected |
| Aspiration hazard: | | | | | | Yes |



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SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). Marine 2T Motor Oil 5 L Art.: 25020 Toxicity / effect Endpoint Time Value Unit Organism Test method Notes 12.1. Toxicity to fish: n.d.a. 12.1. Toxicity to daphnia: n.d.a. 12.1. Toxicity to algae: n.d.a.



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| 12.2. Persistence and degradability: | | Mechanical precipitation possible. |
|--------------------------------------|--|--|
| 12.3. Bioaccumulative | | n.d.a. |
| potential: | | |
| 12.4. Mobility in soil: | | n.d.a. |
| 12.5. Results of PBT | | n.d.a. |
| and vPvB assessment | | |
| 12.6. Other adverse | | n.d.a. |
| effects: | | |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|---|----------|------|-------|------|-------------------------------------|--|--|
| 12.1. Toxicity to fish: | NOELR | 28d | 0,17 | mg/l | Oncorhynchus mykiss | QSAR | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 1,22 | mg/l | Daphnia magna | QSAR | |
| 12.1. Toxicity to algae: | NOELR | 72h | 1000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 69 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 6-8 | | | | High |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substanc |

| Butene, homopolymer | | | | | | | |
|-----------------------|----------|------|-------|------|----------|-------------|----------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.2. Persistence and | | 28d | 10 | % | | | Not readily |
| degradability: | | | | | | | biodegradable |
| 12.5. Results of PBT | | | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substance |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|----------------------------|----------|------|-------|------|-----------------|--------------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | >1000 | mg/l | Salmo gairdneri | | |
| 12.1. Toxicity to fish: | LC50 | 96h | >5000 | mg/l | Oncorhynchus | OECD 203 (Fish, | |
| - | | | | | mykiss | Acute Toxicity | |
| | | | | | | Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 | |
| | | | | | | (Daphnia sp. | |
| | | | | | | Acute | |
| | | | | | | Immobilisation | |
| | | | | | | Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | >1000 | mg/l | Scenedesmus | | |
| | | | | | subspicatus | | |
| 12.2. Persistence and | | 28d | 6 | % | | OECD 301 B | |
| degradability: | | | | | | (Ready | |
| | | | | | | Biodegradability - | |
| | | | | | | Co2 Evolution | |
| | | | | | | Test) | |
| 12.3. Bioaccumulative | Log Pow | | >3 | | | | Low |
| potential: | | | | | | | |
| Toxicity to bacteria: | EC20 | 6h | >1000 | mg/l | Pseudomonas | | |
| | | | | | fluorescens | | |

SECTION 13: Disposal considerations



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13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no .: The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 07 06 99 wastes not otherwise specified 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant. For contaminated packing material Pay attention to local and national official regulations. 15 01 01 paper and cardboard packaging 15 01 02 plastic packaging 15 01 04 metallic packaging **SECTION 14: Transport information General statements** 14.1. UN number: n.a. Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. Classification code: n.a. LQ: n.a. Not applicable 14.5. Environmental hazards: Tunnel restriction code: Transport by sea (IMDG-code) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: na Marine Pollutant: n.a 14.5. Environmental hazards: Not applicable Transport by air (IATA) 14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a. 14.5. Environmental hazards: Not applicable 14.6. Special precautions for user Unless specified otherwise, general measures for safe transport must be followed. 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):



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Directive 2010/75/EU (VOC):

198,6 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

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4, 8, 15

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

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories according, according to acc., acc. to ACGIH American Conference of Governmental Industrial Hygienists Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE 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** Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BGV Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum bw body weight CAS **Chemical Abstracts Service** Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CLP 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 drv weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency



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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, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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