

according to Regulation (EC) No. 1907/2006

MULTI - 5 L

| Versio 2.5 | on Revision Date: 18.05.2017 | SDS Number 422701-0000 | |
|---------------|---------------------------------|---------------------------|--|
| SEC | FION 1: Identification | of the substanc | e/mixture and of the company/undertaking |
| 1.1 Pı | roduct identifier | | |
| Т | rade name | : MULTI - 5 | 5 L |
| F | Product code | : 08930554 | 105 |
| 1.2 R | elevant identified uses | of the substance | or mixture and uses advised against |
| ι | Jse of the Sub- | : Detergen | t |
| S | stance/Mixture | Surface to | eatment, Cleaning agent, Corrosion inhibitor |
| 1.3 D | etails of the supplier of | the safety data s | heet |
| | Company | • | erth GmbH & Co. KG |
| | | | Würth-Str. 12-17 |
| | | 74653 Ki | unzelsau |
| Т | elephone | : +49 7940 | 15 0 |
| Т | elefax | : +49 7940 | 15 10 00 |
| | E-mail address of person | : prodsafe | 2 wuerth.com |
| r | esponsible for the SDS | | |
| 1.4 Eı | mergency telephone nu | ımber | |
| | • • • | | Gesellschaft (07:00 – 18:00 Uhr) +49 794015 |
| 2 | 2552 | | |
| . <u></u> | | | |
| SEC | TION 2: Hazards iden | tification | |
| 2.1 CI | lassification of the sub | stance or mixture | |
| C | Classification (REGULA | TION (EC) No 127 | 2/2008) |
| | Flammable liquids, Categ | · · / | H226: Flammable liquid and vapour. |
| | | - | |

| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
|---|--|
| Specific target organ toxicity - single ex- posure, Category 3 | H336: May cause drowsiness or dizziness. |
| Specific target organ toxicity - repeated exposure, Category 1 | H372: Causes damage to organs through pro- longed or repeated exposure. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters air- ways. |
| Chronic aquatic toxicity, Category 3 | H412: Harmful to aquatic life with long lasting effects. |
| | |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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|----------------|-----------------------------|-----------------------|--|---|
| Haz | ard pictograms | : | | |
| Sigr | nal word | : D | anger | |
| Haz | ard statements | H H P | 304May be fat336May cause372Causes daeated exposure. | e liquid and vapour. al if swallowed and enters airways. drowsiness or dizziness. mage to organs through prolonged or re- aquatic life with long lasting effects. |
| | plemental Hazard tements | | UH066 Re racking. | peated exposure may cause skin dryness or |
| Pre | cautionary statements | P fl: | ames and other ig | r from heat, hot surfaces, sparks, open gnition sources. No smoking. ase to the environment. |
| | | R | esponse: | |
| | | C P a C P | ENTER/doctor. 304 + P340 + P3 ir and keep comfo ENTER/doctor if 314 Get medica | ortable for breathing. Call a POISON |

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2.3 Other hazards

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|-----------------------------------|---|--------------------|--------------------------|
| | | | |
| Hydrocarbons, C9-C10, n- | Not Assigned | Flam. Liq. 3; H226 | >= 50 - < 70 |
| alkanes, isoalkanes, cyclics, <2% | | STOT SE 3; H336 | |
| aromatics | 01-2119471843-32 | Asp. Tox. 1; H304 | |
| | | Aquatic Chronic 3; | |
| | | H412 | |



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| alkan | ocarbons, C10-C13, n- es, isoalkanes, cyclics s (2-25%) | | Not Assigned 01-2119473977- | 17 | STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 | >= 10 - < 20 |
| For e | xplanation of abbrevia | tions se | ee section 16. | | | |

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|------------------------------------|---|
| Protection of first-aiders : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists. |
| If inhaled : | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| In case of skin contact : | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact : | Flush eyes with water as a precaution. Get medical attention if irritation develops and persists. |
| If swallowed : | If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. |
| 4.2 Most important symptoms and | effects, both acute and delayed |
| Risks : | May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking. |
| 4.3 Indication of any immediate me | dical attention and special treatment needed |
| Treatment : | Treat symptomatically and supportively. |



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SECTION 5: Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--------------------------------|---|---|
| Unsuitable extinguishing media | : | High volume water jet |

5.2 Special hazards arising from the substance or mixture

| Specific hazards during fire- fighting | : | Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. |
|---|---|---|
| Hazardous combustion prod- | : | Carbon oxides |

5.3 Advice for firefighters

ucts

| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |
|---|---|---|
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. |
|-------------------------------|---|
| 6.2 Environmental precautions | |

| Environmental precautions | : | Discharge into the environment must be avoided. | |
|---------------------------|---|---|--|
| | | Prevent further leakage or spillage if safe to do so. | |
| | | Prevent spreading over a wide area (e.g. by containment or oil | |
| | | barriers). | |
| | | Retain and dispose of contaminated wash water. | |
| | | Local authorities should be advised if significant spillages cannot be contained. | |
| | | | |



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| 6.3 Metho | ds and material for co | ontainment and clean | ning up |
| Metho | ods for cleaning up | Suppress (knock spray jet. For large spills, j ment to keep ma be pumped, stor Clean up remain bent. Local or nationa posal of this mat employed in the mine which regu Sections 13 and | ols should be used. ert absorbent material. k down) gases/vapours/mists with a water provide dyking or other appropriate contain- aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- l regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding national requirements. |

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-------------------------|---|--|
| Local/Total ventilation | : | Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. |
| Hygiene measures | : | Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. |

7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage | : | Keep in properly labelled containers. Store locked up. Keep |
|--------------------------|---|---|
| areas and containers | | tightly closed. Keep in a cool, well-ventilated place. Store in |
| | | accordance with the particular national regulations. Keep |
| | | away from heat and sources of ignition. |



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| Advi | ce on common storage | Strong oxidizi Organic pero Flammable so Pyrophoric liq Pyrophoric so Self-heating so | kides blids uids blids substances and mixtures and mixtures, which in contact with water, emit |
| Stor | age class (TRGS 510) | : 3, Flammable | liquids |
| - | ific end use(s) cific use(s) | : No data availa | able |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|-------------------|-------------------------------|---|-----------------|
| Hydrocarbons, C9- C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | Not As- signed | AGW | 600 mg/m3 | DE TRGS 900 |
| Peak-limit: excur- sion factor (catego- ry) | 2;(II) | | | |
| Further information | | | oon solvent mixtures, Comm 2.9 of the TRGS 900 | ission for dan- |
| Hydrocarbons, C10-C13, n- alkanes, isoal- kanes, cyclics, aromatics (2-25%) | Not As- signed | AGW | 100 mg/m3 | DE TRGS 900 |
| Peak-limit: excur- sion factor (catego- ry) | 2;(II) | | | |
| Further information | | | oon solvent mixtures, Comm 2.9 of the TRGS 900 | ission for dan- |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|---|---------|-----------------|-------------------------------|------------|
| Hydrocarbon waxes (petroleum), oxidized | Workers | Inhalation | Long-term systemic effects | 0,23 mg/m3 |

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| | | Workers | Skin conta | ict | Long-term systemic effects | 1,7 mg/kg bw/day |
| | | Consumers | Inhalation | | Long-term systemic effects | 0,06 mg/m3 |
| | | Consumers | Skin conta | ict | Long-term systemic effects | 0,8 mg/kg bw/day |
| | | Consumers | Ingestion | | Long-term systemic effects | 0,8 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---|----------------------------|-----------------|
| Distillates (petroleum), hy- drotreated heavy paraffinic | Oral (Secondary Poisoning) | 9,33 mg/kg food |
| Hydrocarbon waxes (petroleum), | Fresh water | 0,1 mg/l |
| oxidized | | |
| | Marine water | 0,01 mg/l |
| | Intermittent use/release | 1 mg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 4270 mg/kg |
| | Marine sediment | 427 mg/kg |
| | Soil | 854 mg/kg |
| | Oral (Secondary Poisoning) | 66,7 mg/kg food |

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

| Personal protective equipment |
|-------------------------------|
|-------------------------------|

| Eye protection : | : | Wear the following personal protective equipment: Safety glasses |
|--|---|--|
| Hand protection Material : Break through time : Glove thickness : | | Nitrile rubber 480 min 0,45 mm |
| Remarks : | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufactur- er. Wash hands before breaks and at the end of workday. |
| Skin and body protection : | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). |



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| Respi | ratory protection | ventilation is | bry protection unless adequate local exhaust provided or exposure assessment demonstrates as are within recommended exposure guidelines. |
| Filter | type | : Combined pa | articulates and organic vapour type (A-P) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance | : | liquid |
|---|---|---|
| Colour | | light brown |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | 140 °C |
| Flash point | : | 24 °C Method: ISO 3679 Other information: No data available |
| Evaporation rate | | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit / Upper | : | 7 %(∨) |
| flammability limit | | 7 /o(V) |
| flammability limit Lower explosion limit / Lower flammability limit | : | |
| Lower explosion limit / Lower | : | |
| Lower explosion limit / Lower flammability limit | | 0,6 %(V) |
| Lower explosion limit / Lower flammability limit Vapour pressure | : | 0,6 %(V) No data available |
| Lower explosion limit / Lower flammability limit Vapour pressure Relative vapour density | : | 0,6 %(V) No data available No data available 0,796 g/cm3 (20 °C) |

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| Auto | -ignition temperature | : | No data available | e |
| Decomposition temperature | | : | No data available | e |
| | osity ′iscosity, kinematic | : | < 7 mm2/s (40 °(| C) |
| Explosive properties | | : | Not explosive | |
| Oxid | izing properties | : | The substance o | r mixture is not classified as oxidizing. |
| | r information cle size | : | Not applicable | |

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

| Hazardous reactions | : Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents. |
|---------------------|---|
| | |

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : exposure In

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.



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| | <u>Compo</u> | onents: | | | |
| | Hydroc | arbons, C9-C10, n-all | kan | es, isoalkanes, cy | clics, <2% aromatics: |
| | Acute o | oral toxicity | : | LD50 (Rat): > 5.00 Remarks: Based o | 00 mg/kg on data from similar materials |
| | Acute ir | nhalation toxicity | : | tion toxicity | 1 |
| | Acute d | lermal toxicity | : | toxicity | 8.160 mg/kg substance or mixture has no acute dermal on data from similar materials |
| | Hydroc | arbons C10-C13 n-a | Ika | nes isoalkanes c | yclics, aromatics (2-25%): |
| | • | oral toxicity | : | LD50 (Rat): > 5.00 | |
| | Acute ir | nhalation toxicity | : | LC50 (Rat): > 13,7 Exposure time: 4 H Test atmosphere: Assessment: The tion toxicity | 1 |
| | Acute d | lermal toxicity | : | LD50 (Rat): > 3.50 Assessment: The toxicity | 00 mg/kg substance or mixture has no acute dermal |

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rabbit Result: Mild skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Assessment: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified based on available information.



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Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rabbit Method: OECD Test Guideline 405 Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Result: negative Remarks: Based on data from similar materials

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Test Type: Maximisation Test Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

| Hydrocarbons, | C9-C10, n-alkanes, | isoalkanes, cyclics, | <2% aromatics: |
|---------------|--------------------|----------------------|----------------|
| | | | |

| Genotoxicity in vitro | : | Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials |
|-----------------------|---|---|
| Genotoxicity in vivo | : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative |

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| Germ cell mutagenicity- As- sessment | | : Classified based on benzene content < 0.1% (Regulation 1272/2008, Annex VI, Part 3, Note P) | |
| • | ocarbons, C10-C13, n- otoxicity in vitro | | rs, cyclics, aromatics (2-25%): romosome aberration test in vitro ve |
| Genotoxicity in vivo | | : Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ | se oute: Ingestion |

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat Application Route: inhalation (vapour) Exposure time: 105 weeks Result: negative Remarks: Based on data from similar materials

| Carcinogenicity - Assess- | : | Classified based on benzene content < 0.1% (Regulation (EC) |
|---------------------------|---|---|
| ment | | 1272/2008, Annex VI, Part 3, Note P) |

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat Application Route: inhalation (vapour) Exposure time: 13 weeks Result: negative Remarks: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

| Effects on fertility | : | Test Type: Reproduction/Developmental toxicity screening test Species: Rat Application Route: inhalation (vapour) Result: negative |
|------------------------------------|---|--|
| Effects on foetal develop- ment | : | Test Type: Embryo-foetal development Species: Rat Application Route: inhalation (vapour) Result: negative |

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| | | Remarks: Based of | on data from similar materials |
| Hydrod | carbons, C10-C13, n-a | alkanes, isoalkanes, c | cyclics, aromatics (2-25%): |
| Effects | on fertility | test Species: Rat | duction/Developmental toxicity screening : inhalation (vapour) |
| Effects ment | on foetal develop- | Species: Rat | ro-foetal development : inhalation (vapour) |

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Target Organs: Central nervous system Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Species: Rat NOAEL: 10.186 mg/m3 Application Route: inhalation (vapour) Exposure time: 13 Weeks

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Species: Rat NOAEL: 2,34 mg/l LOAEL: 4,67 mg/l Application Route: inhalation (vapour) Exposure time: 6 Months Remarks: Based on data from similar materials

Aspiration toxicity

May be fatal if swallowed and enters airways.



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Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: Ecological information

12.1 Toxicity

Components:

| Hydrocarbons, C9-C10, n-alka | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics: | | | |
|---|---|--|--|--|
| Toxicity to fish : | LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 30 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials | | | |
| Toxicity to daphnia and other : aquatic invertebrates | EL50 (Daphnia magna (Water flea)): > 22 - 46 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 Remarks: Based on data from similar materials | | | |
| Toxicity to algae : | EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOELR (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials | | | |
| Hydrocarbons, C10-C13, n-alk | anes, isoalkanes, cyclics, aromatics (2-25%): | | | |
| Toxicity to fish : | LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 | | | |
| Toxicity to daphnia and other : aquatic invertebrates | EL50 (Daphnia magna (Water flea)): 100 - 200 mg/l Exposure time: 48 h | | | |



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| | | | ce: Water Accommodated Fraction D Test Guideline 202 |
| To | xicity to algae | 100 mg/l Exposure tim Test substand Method: OEC | okirchneriella subcapitata (green algae)): > 10 - e: 72 h ce: Water Accommodated Fraction D Test Guideline 201 sed on data from similar materials |
| | | mg/l Exposure tim Test substand Method: OEC | udokirchneriella subcapitata (green algae)): 3 e: 72 h ce: Water Accommodated Fraction D Test Guideline 201 sed on data from similar materials |
| aqı | xicity to daphnia and othe uatic invertebrates (Chron oxicity) | n- Exposure tim Species: Dap Test substand Method: OEC | |

12.2 Persistence and degradability

Components:

| Hydrocarbons, C9-C10, | n-alkanes, isoalkanes, cyclics, <2% aromatics: |
|-----------------------|--|
| Biodegradability | : Result: Readily biodegradable. |
| | Biodegradation: 89 % |
| | Exposure time: 28 d |
| | Method: OECD Test Guideline 301F |
| | Remarks: Based on data from similar materials |
| | |

| Biodegradability | : | Result: Readily biodegradable. Biodegradation: 74,7 % |
|------------------|---|--|
| | | Exposure time: 28 d |
| | | Method: OECD Test Guideline 301F |

12.3 Bioaccumulative potential

Components:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%): Partition coefficient: noctanol/water

12.4 Mobility in soil

No data available



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|---------------------------|---|------|---|--|
| Not re 12.6 Othe | Ilts of PBT and vPvB a elevant r adverse effects ata available | ISSE | ssment | |
| SECTION | N 13: Disposal consi | dera | ations | |
| 13.1 Wası Produ | te treatment methods uct | : | According to the l are not product sp Waste codes sho | ordance with local regulations. European Waste Catalogue, Waste Codes becific, but application specific. uld be assigned by the user, preferably in e waste disposal authorities. |
| Conta | aminated packaging | : | dling site for recyc Empty containers Do not pressurize pose such contain of ignition. They r | should be taken to an approved waste han- cling or disposal. retain residue and can be dangerous. e, cut, weld, braze, solder, drill, grind, or ex- ners to heat, flame, sparks, or other sources nay explode and cause injury and/or death. becified: Dispose of as unused product. |
| Wast | e Code | : | used product | ste Codes are only suggestions: ganic solvents, washing liquids and mother |
| | | | unused product 070704, other org liquors | anic solvents, washing liquids and mother |
| | | | uncleaned packag 150110, packagir dangerous substa | g containing residues of or contaminated by |

SECTION 14: Transport information

14.1 UN number

| ADN | : | UN 3295 |
|------|---|---------|
| ADR | : | UN 3295 |
| RID | : | UN 3295 |
| IMDG | : | UN 3295 |
| ΙΑΤΑ | : | UN 3295 |
| | | |

14.2 UN proper shipping name

ADN

: HYDROCARBONS, LIQUID, N.O.S.



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|--|--|---|---|--|
| ADR | | : HYDROCARB | ONS, LIQUID, N.O.S. | |
| RID | | | ONS, LIQUID, N.O.S. | |
| IMDG | | | ONS, LIQUID, N.O.S. | |
| IATA | | : Hydrocarbons | | |
| | sport hazard class(es) | . If yarooanoono | , inquita, inclui | |
| ADN | | : 3 | | |
| ADR | | : 3 | | |
| RID | | : 3 | | |
| IMDG | | : 3 | | |
| ΙΑΤΑ | | : 3 | | |
| 14.4 Packi | ing group | | | |
| Classi | ng group ification Code rd Identification Number s | : III : F1 : 30 : 3 | | |
| Classi Hazar Labels | ng group ification Code rd Identification Number s el restriction code | : III : F1 : 30 : 3 : (D/E) | | |
| Classi | ng group ification Code rd Identification Number s | : III : F1 : 30 : 3 | | |
| IMDG Packii Labels EmS (| ng group s | : III : 3 : F-E, S-D | | |
| | (Cargo) ng instruction (cargo ft) | : 366 | | |
| Packi | ng instruction (LQ) ng group | : Y344 : III : Flammable Lic | juids | |
| Packii ger ai Packii | ng instruction (LQ) ng group | : 355 : Y344 : III : Flammable Lic | | |

14.5 Environmental hazards

븢 WüRTH

according to Regulation (EC) No. 1907/2006

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|----------------------------|---------------------------|-----------------------------|---|
| ADN Enviro | onmentally hazardous | : no | |
| ADR Envire | onmentally hazardous | : no | |
| RID Envire | onmentally hazardous | : no | |
| IMDG Marin | e pollutant | : no | |
| - | ial precautions for use | er | |
| 14.7 Tran s Rema | • | - | arpol and the IBC Code e for product as supplied. |

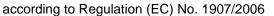
SECTION 15: Regulatory information

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

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) | : | Not applicable |
|--|---|----------------|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer | : | Not applicable |
| Regulation (EC) No 850/2004 on persistent organic pol- lutants | : | Not applicable |
| Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals | : | Not applicable |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

| P5c | FLAMMABLE LIQUIDS | Quantity 1 5.000 t | Quantity 2 50.000 t |
|-----|---|-----------------------|------------------------|
| 34 | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (includ- ing diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alterna- tive fuels serving the same purposes and with similar properties as regards | 2.500 t | 25.000 t |





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|-------------------------------------|---------------------------------------|---|--|--|--|
| | | | flammability and o mental hazards a products referred points (a) to (d) | s the | |
| Water contaminating class (Germany) | | : | WGK 2 water endangering Classification according VwVwS, Annex 4. | | |
| Vola | atile organic compounds | : | emissions (integra Volatile organic c g/l | /EU of 24 November 2010 on industrial ated pollution prevention and control) ompounds (VOC) content: 69,99 %, 557,12 ontent excluding water | |
| - | ulation (EC) No. /2004, as amended | : | 30 % and more: A Other constituent | Aliphatic hydrocarbons s: Perfumes | |
| Oth | er regulations: | | | | |

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

DE TRGS 900 / AGW

| Full text of H-Statements | | |
|---------------------------------|-----|---|
| H226 | : | Flammable liquid and vapour. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H336 | : | May cause drowsiness or dizziness. |
| H372 | : | Causes damage to organs through prolonged or repeated exposure. |
| H412 | : | Harmful to aquatic life with long lasting effects. |
| Full text of other abbreviation | ons | |
| Aquatic Chronic | : | Chronic aquatic toxicity |
| Asp. Tox. | : | Aspiration hazard |
| Flam. Liq. | : | Flammable liquids |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| DE TRGS 900 | : | Germany. TRGS 900 - Occupational exposure limit values. |

: Time Weighted Average

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -



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Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Sources of key data used to : | Internal technical data, data from raw material SDSs, OECD |
|-------------------------------|--|
| compile the Safety Data | eChem Portal search results and European Chemicals Agen- |
| Sheet | cy, http://echa.europa.eu/ |

Classification of the mixture:

| Flam. Liq. 3 | H226 |
|-------------------|------|
| STOT SE 3 | H336 |
| STOT RE 1 | H372 |
| Asp. Tox. 1 | H304 |
| Aquatic Chronic 3 | H412 |

Classification procedure:

| Based on product data or assessment |
|-------------------------------------|
| Calculation method |
| Calculation method |
| Calculation method |
| Calculation method |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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DE / EN