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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

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Truck Series Complete Diesel System Cleaner

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Fuel additive Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+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) +1 872 5888271 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

1

2

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

Hazard class Asp. Tox. Aquatic Chronic

Hazard category

Hazard statement

H304-May be fatal if swallowed and enters airways. H411-Toxic to aquatic life with long lasting effects.

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





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Danger

H304-May be fatal if swallowed and enters airways. H411-Toxic to aquatic life with long lasting effects.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P273-Avoid release to the environment. P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331-Do NOT induce vomiting. P405-Store locked up. P501 Dispace of contents / container to an approved waste dispaced facility.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH044-Risk of explosion if heated under confinement. EUH066-Repeated exposure may cause skin dryness or cracking.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

^{n.a.} 3.2 Mixtures

| 01-2119457273-39-XXXX |
|-----------------------|
| |
| 918-481-9 |
| |
| 60-80 |
| EUH066 |
| Asp. Tox. 1, H304 |
| |

| 2-ethylhexyl nitrate | |
|--|-------------------------------|
| Registration number (REACH) | 01-2119539586-27-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 248-363-6 |
| CAS | 27247-96-7 |
| content % | 10-<25 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH044 |
| | EUH066 |
| | Acute Tox. 4, H302 |
| | Acute Tox. 4, H312 |
| | Acute Tox. 4, H332 |
| | Aquatic Acute 1, H400 (M=1) |
| | Aquatic Chronic 1, H410 (M=1) |
| | |

| 2-Ethylhexanol | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH) | 01-2119487289-20-XXXX |
| Index | |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-234-3 |
| CAS | 104-76-7 |
| content % | 1-5 |



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Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here. Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here. The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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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Remove person from danger area.

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

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

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

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately. Danger of aspiration. In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the eyes

Product removes fat. Dermatitis (skin inflammation) Ingestion: Oedema of the lungs Lung damage Chemical pneumonitis (condition similar to pneumonia) 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

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2

Extinction powder Foam

Unsuitable extinguishing media



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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 Hydrocarbons Toxic pyrolysis products. Danger of explosion. Explosive vapour/air or gas/air mixtures. 5.3 Advice for firefighters

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For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Fill the absorbed material into lockable containers.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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



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7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Under all circumstances prevent penetration into the soil. Do not store with oxidizing agents. Store in a well ventilated place. Protect from direct sunlight and warming. Store cool.

7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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): 800 mg/m3

| Chemical Name | | | | | | | | | |
|-------------------------------|----------------|-----------------------------------|-----------------------|------------------------|--|--|--|--|--|
| WEL-TWA: 800 mg/m3 | | WEL-STEL: | | | | | | | |
| Monitoring procedures: | - | Draeger - Hydrocarbons 0,1%/c (8 | 1 03 571) | | | | | | |
| | - | Draeger - Hydrocarbons 2/a (81 03 | 3 581) | | | | | | |
| | - | Compur - KITA-187 S (551 174) | | | | | | | |
| BMGV: | | | Other information: (O | EL acc. to RCP-method, | | | | | |
| | | | paragraphs 84-87, EH4 | 40) | | | | | |
| Chemical Name | 2-Ethylhexanol | | | | | | | | |
| WEL-TWA: 1 ppm (5,4 mg/m3) (W | /EL, EU) | WEL-STEL: | | | | | | | |
| Monitoring procedures: | - | Draeger - Alcohol 100/a (CH 29 70 | 1) | | | | | | |
| BMGV: | | | Other information: | | | | | | |

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|--------------------------------|------------|--------------|-----------------|------|
| | Environment - freshwater | | PNEC | 0,8 | µg/l | |
| | Environment - marine | | PNEC | 0,08 | µg/l | |
| | Environment - soil | | PNEC | 0,00019 1 | mg/kg dw | |
| | Environment - sediment, freshwater | | PNEC | 0,00074 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,00074 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,52 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,087 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,025 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,022 | mg/cm2 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 1 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,35 | mg/m3 | |



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| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,044 | mg/cm2 | |
|---------------------|----------------|--------------------------|------|-------|--------|--|

| Area of application | Exposure route / Environmental | Effect on health | Descriptor | Value | Unit | Note |
|--|--|--------------------------------|------------|--------|-----------------------------|------|
| | compartment | | | | | |
| | Environment - freshwater | | PNEC | 0.017 | mg/l | |
| | Environment - marine | | PNEC | 0,0017 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 0,17 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,284 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,028 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,047 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 55 | mg/kg feed | |
| Consumer Human - oral | | Long term, systemic effects | DNEL | 1,1 | mg/kg body weight/day | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 53,2 | mg/m3 | |
| Consumer Human - dermal | | Long term, systemic effects | DNEL | 11,4 | mg/kg bw/day | |
| Consumer Human - inhalation | | Long term, systemic effects | DNEL | 2,3 | mg/m3 | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 1,1 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 26,6 | mg/m3 | |
| Workers / employees Human - inhalation | | Long term, systemic effects | DNEL | 12,8 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 23 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 53,2 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 53,2 | mg/m3 | |
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 12,8 | mg/m3 | |

B 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 (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE).
(11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | 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

(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. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

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

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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



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

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Solvent resistant protective gloves (EN ISO 374). If applicable Protective nitrile gloves (EN ISO 374). Protective Viton® / fluoroelastomer gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 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. Gas mask filter A (EN 14387), code colour brown 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: | Liquid |
|---|--|
| Colour: | Clear, Amber |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | 180 °C |
| Flammability: | Flammable |
| Lower explosion limit: | 0,6 Vol-% (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics) |
| Upper explosion limit: | 7 Vol-% (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics) |
| Flash point: | 63 °C |
| | |



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Auto-ignition temperature: Decomposition temperature: pH: Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids: There is no information available on this parameter. There is no information available on this parameter. Mixture is non-soluble (in water). <7 mm2/s (40°C) Insoluble Does not apply to mixtures. There is no information available on this parameter. 0,834 g/ml (15°C) Vapours heavier than air. Does not apply to liquids.

There is no information available on this parameter. No

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

Risk of explosion if heated under confinement.

10.4 Conditions to avoid

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents. Avoid contact with strong acids. Avoid contact with strong alkalis.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|----------|-------------|-------------------|
| Acute toxicity, by oral route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by dermal route: | ATE | >2000 | mg/kg | | | calculated value |
| Acute toxicity, by inhalation: | ATE | >20 | mg/l/4h | | | calculated value, |
| | | | _ | | | Vapours |
| 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. |

| ŀ | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | | | | | |
|---|--|----------|-------|-------|----------|----------------------|------------|--|--|
| T | oxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | | |
| A | Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral | Analogous | | |
| | | | | | | Toxicity) | conclusion | | |



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|-----------------------------------|----------------|---------------|----------|-------------|--------------------------------|---------------------------|
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| | | | | | | |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute | Analogous |
| | | | | | Dermal Toxicity) | conclusion |
| Acute toxicity, by inhalation: | LC50 | >4951 | mg/m3/4h | Rat | OECD 403 (Acute | Analogous |
| | | | - | | Inhalation Toxicity) | conclusion, |
| | | | | | | Vapours |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute | Not irritant, |
| | | | | | Dermal | Analogous |
| | | | | | Irritation/Corrosion) | conclusion |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye | Not irritant, |
| | | | | | Irritation/Corrosion) | Analogous |
| | | | | | | conclusion |
| Respiratory or skin | | | | | OECD 406 (Skin | Not sensitizising, |
| sensitisation: | | | | | Sensitisation) | Analogous |
| | | | | | | conclusion |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro | Negative, |
| | | | | | Mammalian | Analogous |
| | | | | | Chromosome | conclusion |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | | OECD 474 (Mammalian | Negative, |
| | | | | | Erythrocyte | Analogous |
| | | | | | Micronucleus Test) | conclusion |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Carcinogenicity: | | | | | OECD 453 (Combined | Negative, |
| | | | | | Chronic | Analogous |
| | | | | | Toxicity/Carcinogenicity | conclusion |
| Depreductive toxicity | | | | | Studies) OECD 414 (Prenatal | Nogotivo |
| Reproductive toxicity: | | | | | Developmental Toxicity | Negative, Analogous |
| | | | | | Study) | conclusion |
| Specific target organ toxicity - | | | | | OECD 408 (Repeated | Negative, |
| repeated exposure (STOT-RE): | | | | | Dose 90-Day Oral | Analogous |
| | | | | | Toxicity Study in | conclusion |
| | | | | | Rodents) | CONCIUSION |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | 1 | 1 | | | | unconsciousness |
| eyptomo. | | | | | | , headaches, |
| | | | | | | dizziness, |
| | | | | | | mucous |
| | | | | | | membrane |
| | | | | | | irritation |
| | | 1 | 1 | 1 | _ | 1 |
| 2-ethylhexyl nitrate | | | | | | |
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by dermal route: | | | | | | Experiences on |
| | | | | | | persons., |
| | | | | | | Harmful |
| Acute toxicity, by inhalation: | LCLo | >4,6 | mg/l/1h | Rat | | Mist |
| Acute toxicity, by inhalation: | | | | | | Experiences on |
| | | | | | | persons., |
| | | | | | | Harmful |
| Olde compoles (imitations | | | | | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal | Not irritant, Repeated |

| TOXICITY / CITCOL | Enapoint | Value | Onit | Organishi | reatmentou | 10103 |
|----------------------------------|----------|-------|---------|------------|-----------------------|-------------------|
| Acute toxicity, by dermal route: | | | | | | Experiences on |
| | | | | | | persons., |
| | | | | | | Harmful |
| Acute toxicity, by inhalation: | LCLo | >4,6 | mg/l/1h | Rat | | Mist |
| Acute toxicity, by inhalation: | | | | | | Experiences on |
| | | | | | | persons., |
| | | | | | | Harmful |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Not irritant, |
| | | | | | Dermal | Repeated |
| | | | | | Irritation/Corrosion) | exposure may |
| | | | | | | cause skin |
| | | | | | | dryness or |
| | | | | | | cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Not irritant |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin contact) |
| sensitisation: | | | | | Sensitisation) | |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro | Negative |
| | | | | | Mammalian Cell Gene | |
| | | | | | Mutation Test) | |



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| Germ cell mutagenicity: | | | | Human being | OECD 473 (In Vitro | Negative |
|----------------------------------|-------|-----|-------|-------------|---------------------------|------------------|
| | | | | | Mammalian | |
| | | | | | Chromosome | |
| | | | | | Aberration Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | |
| Reproductive toxicity: | NOAEL | 20 | mg/kg | Rat | OECD 421 | Negative, oral |
| | | | bw/d | | (Reproduction/Developm | |
| | | | | | ental Toxicity Screening | |
| | | | | | Test) | |
| Specific target organ toxicity - | NOAEL | 500 | mg/kg | Rabbit | | Negativedermal |
| repeated exposure (STOT-RE), | | | bw/d | | | |
| dermal: | | | | | | |
| Specific target organ toxicity - | NOAEL | 863 | mg/m3 | Rat | OECD 413 (Subchronic | Vapours, |
| repeated exposure (STOT-RE), | | | | | Inhalation Toxicity - 90- | Analogous |
| inhalat.: | | | | | Day Study) | conclusion(90 d) |
| Symptoms: | | | | | | headaches, |
| | | | | | | dizziness, |
| | | | | | | nausea, drop in |
| | | | | | | blood pressure, |
| | | | | | | diarrhoea, |
| | | | | | | unconsciousness |
| | | | | | | , eyes, reddened |

| 2-Ethylhexanol Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|-------------------------------------|----------|-----------|---------|-------------|---------------------------|--------------------|
| Acute toxicity, by oral route: | LD50 | 2047 | mg/kg | Rat | OECD 401 (Acute Oral | NULES |
| Acute toxicity, by oral route. | LDSU | 2047 | nig/kg | Rai | Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3000 | mg/kg | Rat | OECD 402 (Acute | |
| Acute toxicity, by definal foule. | LDSU | >3000 | nig/kg | Rai | | |
| | LC50 | 0.7 | | | Dermal Toxicity) | Aerosol |
| Acute toxicity, by inhalation: | | 2,7 | mg/l/4h | Det | | Aerosoi |
| Acute toxicity, by inhalation: | LC50 | >0,89-5,3 | mg/l/4h | Rat | OECD 403 (Acute | |
| | | | | BUUK | Inhalation Toxicity) | 011 1 1 0 |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute | Skin Irrit. 2 |
| | | | | | Dermal | |
| | | | | | Irritation/Corrosion) | |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye | Eye Irrit. 2 |
| | | | | | Irritation/Corrosion) | |
| Respiratory or skin | | | | Guinea pig | OECD 406 (Skin | No (skin |
| sensitisation: | | | | | Sensitisation) | contact)literature |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro | Negative |
| 0 , | | | | | Mammalian Cell Gene | 0 |
| | | | | | Mutation Test) | |
| Germ cell mutagenicity: | | | | Salmonella | OECD 471 (Bacterial | Negative |
| | | | | typhimurium | Reverse Mutation Test) | - J |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro | NegativeChines |
| j- | | | | | Mammalian | hamster |
| | | | | | Chromosome | namotor |
| | | | | | Aberration Test) | |
| Carcinogenicity: | NOAEL | 750 | mg/kg | Mouse | OECD 451 | Negative |
| Carcinogenicity. | NOALL | 100 | bw/d | Mouse | (Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 3000 | ppm | Rat | OECD 416 (Two- | Negative |
| Reproductive toxicity. | NOALL | 3000 | ppm | T Cat | generation | Negative |
| | | | | | Reproduction Toxicity | |
| | | | | | | |
| Denne du stive terrisitu | | | | Mayaa | Study) | Negative and |
| Reproductive toxicity | | | | Mouse | OECD 414 (Prenatal | Negativeoral |
| (Developmental toxicity): | | | | | Developmental Toxicity | |
| | | | | | Study) | |
| Specific target organ toxicity - | | | | | | Irritation of the |
| single exposure (STOT-SE): | | | | | | respiratory tract |
| | | | | | | STOT SE 3, |
| | | | | | | H335 |



| - GB | | | | | | |
|--|----------------------------|--------|---------------|-------|---|---|
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| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 125 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 0,6384 | mg/l | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study) | Vapours |
| Symptoms: | | | | | | unconsciousness , drop in blood pressure, vomiting, headaches, cramps, drowsiness, mucous membrane irritation, dizziness, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 200 | mg/kg bw/d | Mouse | | |
| | | 1. | | | | |

11.2. Information on other hazards

| Truck Series Complete Diesel System Cleaner | | | | | | |
|---|----------|-------|------|----------|-------------|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: | | | | | | Does not apply |
| | | | | | | to mixtures. |
| Other information: | | | | | | No other |
| | | | | | | relevant |
| | | | | | | information |
| | | | | | | available on |
| | | | | | | adverse effects |
| | | | | | | on health. |

| Hydrocarbons, C10-C13, n- | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | | | |
|---------------------------|--|-------|------|----------|-------------|--------------|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes | |
| Other information: | | | | | | Repeated | |
| | | | | | | exposure may | |
| | | | | | | cause skin | |
| | | | | | | dryness or | |
| | | | | | | cracking. | |

SECTION 12: Ecological information

| Truck Series Complete Diesel System Cleaner | | | | | | | |
|---|----------|------|-------|------|----------|-------------|-------------------|
| 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. |
| 12.2. Persistence and | | | | | | | Isolate as much |
| degradability: | | | | | | | as possible with |
| | | | | | | | an oil separator. |
| 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. Endocrine | | | | | | | Does not apply |
| disrupting properties: | | | | | | | to mixtures. |



| Toxicity / effect | | | | | | | |
|---|-------------------|---------------------|------------------------|-----------------|-------------------------------------|--|---|
| 2-ethylhexyl nitrate | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| | | | | | | | |
| | | | | | | | the water surface. |
| Water solubility: | | | | | | | Product floats of |
| Other organisms: | EL50 | 48h | >1000 | mg/l | Tetrahymen pyriformis | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.3. Bioaccumulative potential: | BCF | | 10-2500 | | | | High |
| degradability: | | | | | | (Ready Biodegradability - Manometric Respirometry Test) | biodegradable |
| 12.2. Persistence and | | 28d | 80 | % | activated sludge | Test) OECD 301 F | Readily |
| 12.1. Toxicity to algae: | EL50 | 72h | >1000 | mg/l | Pseudokirchneriell a subcapitata | OECD 201 (Alga, Growth Inhibition | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 0,176 | mg/l | Daphnia magna | 1000 | |
| | ELSU | 4011 | >1000 | mg/l | Daphnia magna | (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >1000 | | mykiss Donhnia magna | Acute Toxicity Test) OECD 202 | |
| 12.1. Toxicity to fish: | LL50 | 96h | >1000 | mg/l | Mykiss Oncorhynchus | OECD 203 (Fish, | |
| 12.1. Toxicity to fish: | Endpoint NOELR | 28d | 0,101 | mg/l | Organism Oncorhynchus | | 110163 |
| Hydrocarbons, C10-C13, I Toxicity / effect | | alkanes, cy Time | clics, <2% ar Value | omatics Unit | Quantian | Test method | Notes |
| | | | | | | | recipe, contains no AOX. |
| offects: | | | | | | | available on other adverse effects on the environment. According to the |
| 12.7. Other adverse | | | | | | | No information |

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|-------------------------------------|---|----------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 2 | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 0,83 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | >2,53 | mg/l | Pseudokirchneriell a subcapitata | | |
| 12.2. Persistence and degradability: | DOC | 28d | 0 | % | activated sludge | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 5,24 | | | OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method) | High |
| 12.3. Bioaccumulative potential: | BCF | | 1332 | | | | |



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| /alid from: 28.07.2023 PDF print date: 28.07.202 | 2 | | | | | | |
| Fruck Series Complete Di | | aner | | | | | |
| 12.5. Results of PBT | 1 | 1 | | | | | No PBT |
| and vPvB assessment | | | | | | | substance, No |
| | | | | | | | vPvB substanc |
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
| 2-Ethylhexanol | | | | | | | |
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 17,1 | mg/l | Leuciscus idus | Regulation (EC) 440/2008 C.1 (ACUTE TOXICITY FOR FISH) | |
| 12.1. Toxicity to fish: | LC50 | 96h | 28,2 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 39 | mg/l | Daphnia magna | Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 16,6 | mg/l | Desmodesmus subspicatus | Regulation (EC) 440/2008 C.3 (FRESHWATER ALGAE AND CYANOBACTERI A, GROWTH INHIBITION TEST) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 5,3 | mg/l | Desmodesmus subspicatus | Regulation (EC) 440/2008 C.3 (FRESHWATER ALGAE AND CYANOBACTERI A, GROWTH INHIBITION TEST) | |
| 12.2. Persistence and degradability: | COD | 14d | 100 | % | activated sludge | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,9 | | | OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method) | Low |
| 12.3. Bioaccumulative potential: | BCF | | 25,33 | | | | calculated valu Low |
| 12.4. Mobility in soil: | | | 1,42 | | | | Not to be expected |
| 12.4. Mobility in soil: | Koc | | 800 | | | | • |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substanc |
| Toxicity to bacteria: | EC50 | 24h | >300 | mg/l | activated sludge | | |
| Toxicity to bacteria: | EC50 | 3h | 540 | mg/l | Pseudomonas | | |

EC50

Toxicity to bacteria:

12h

> 100

mg/l

Pseudomonas putida

activated sludge



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

07 07 04 other organic solvents, washing liquids and mother liquors

14 06 03 other solvents and solvent mixtures

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

| Transport by road/by rail (ADR/RID) 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: 3082 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) Image: Constraint of the consthe constraint of the constraint of the constra | General statements | | |
|--|---|-------------------------------|--|
| 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: 9 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous 1.1. UN number or Code: - Classification code: M6 LC: 5 L Transport by sea (IMDG-code) 3082 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: 0082 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) Image: Comparison of the code code code code code code code cod | Transport by road/by rail (ADR/RID) | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 14.4. Packing group: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.5. Environmental hazards: environmentally hazardous Transport by sea (IMDG-code) 14.1. UN number or ID number: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport by sea (IMDG-code) 14.1. UN number or ID number: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.4. Packing group: 11.1. UN number or ID number: 14.5. Environmental hazards: EmS: F-A, S-F Transport by air (IATA) 14.1. UN number or ID number: 14.3. Transport hoy air (IATA) 14.1. UN number or ID number: 14.3. Transport hazard class(es): 9 14.4. Packing group: UN 3082 Environmental hazards: EmS: F-A, S-F Transport by air (IATA) 14.1. UN number or ID number: 14.3. Transport hazard class(es): 9 14.4. Packing group: UN 3082 Environmental hazards: Environmental hazards: 14.4. Packing group: 11. 14.5. Environmental hazards: 9 14.4. Packing group: 11. 14.5. Environmental hazards: 11. 14.5. Environmental hazards: 11. 14.5. Environmental hazards: 11. 14.5. Environmental hazards: 11. 14.5. Environmental hazards: 14. 14. Packing group: 15. 16. 17. 17. 18. 18. 19. 19. 19. 19. 10. 10. 10. 10. 10. 10. 10. 10 | | 3082 | |
| 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous Classification code: - Classification code: 5 L Transport claegory: 3082 14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous wironmental hazards: environmentally hazardous Waine Pollutant: Yes Ems: F-A, S-F Transport hazard class(es): 9 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 Environmental hazards: environmentally hazardous wironmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport by air (IATA) 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 15. Environmental hazards: environmentally hazardous wironmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous iii environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) iii 14.5. Environmental hazards: environmentally hazardous iii 15. Environmental hazards: environmental hazards: environmental hazards: environmentally hazardous iii fa.5. Environmen | 14.2. UN proper shipping name: | | |
| 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous Classification code: - Classification code: 5 L Transport claegory: 3082 14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous wironmental hazards: environmentally hazardous Waine Pollutant: Yes Ems: F-A, S-F Transport hazard class(es): 9 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 Environmental hazards: environmentally hazardous wironmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport by air (IATA) 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 15. Environmental hazards: environmentally hazardous wironmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous iii environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) iii 14.5. Environmental hazards: environmentally hazardous iii 15. Environmental hazards: environmental hazards: environmental hazards: environmentally hazardous iii fa.5. Environmen | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, | N.O.S. (2-ETHYLHEXYL NITRATE) | affr. |
| 14.5. Environmental hazards: environmentally hazardous Turnel restriction code: - Classification code: M6 LQ: 5 L Transport category: 3 Transport by sea (IMDG-code) - 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: 0082 14.2. UN proper shipping name: 9 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous Marine Pollutant: Yes EmS: F-A, S-F Transport hazard class(es): 9 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: Yes EmS: F-A, S-F Transport hazard class(es): 9 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) III 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: | 14.3. Transport hazard class(es): | 9 | 5 |
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| Classification code: M6 LQ: 5 L Transport category: 3 Transport by sea (IMDG-code) | | environmentally hazardous | $\langle \underline{\mathbf{x}} \rangle$ |
| LQ: 5 L Transport category: 3 Transport by sea (IMDG-code) 3 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous Marine Pollutant: Yes EmS: F-A, S-F Transport hazard class(es): 9 14.1. UN number or ID number: 3082 14.2. UN proper shipping name: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2-ETHYLHEXYL NITRATE) 14.3. Transport hazard class(es): 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous UN 3082 Environmental hazards: 9 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous 14.4. Packing group: III 14.5. Environmental hazards: environmentally hazardous 14.4. Packing group: III 14.5. Environmental hazards: environmentally ha | | - | \sim |
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| Danger code and packing code on request. | Danger code and packing code on request. | | |



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Comply with special provisions.

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SECTION 15: Regulatory information

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

Observe restrictions: Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of | Qualifying quantity (tonnes) of |
|-------------------|------------------|--------------------------------------|--------------------------------------|
| - | | dangerous substances as | dangerous substances as |
| | | referred to in Article 3(10) for the | referred to in Article 3(10) for the |
| | | application of - Lower-tier | application of - Upper-tier |
| | | requirements | requirements |
| E2 | | 200 | 500 |
| | | | |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

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Revised sections: Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

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

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|--|--|
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| Aquatic Chronic 2, H411 | Classification according to calculation procedure. |

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). H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315 Causes skin irritation.

H319 Causes serious eye irritation. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking.

EUH044 Risk of explosion if heated under confinement.

Asp. Tox. - Aspiration hazard Aquatic Chronic - Hazardous to the aquatic environment - chronic Acute Tox. - Acute toxicity - oral

2, 3, 7, 8, 11, 12, 14, 15, 16



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Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation Aquatic Acute — Hazardous to the aquatic environment - acute Skin Irrit. — Skin irritation Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

| acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number |
|---|
| Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) |
| ATE Acute Toxicity Estimate |
| 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 |
| BSEF The International Bromine Council |
| bw body weight CAS Chemical Abstracts Service |
| CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances |
| and mixtures) |
| CMR carcinogenic, mutagenic, reproductive toxic |
| DMEL Derived Minimum Effect Level |
| DNEL Derived No Effect Level |
| DOC Dissolved organic carbon |
| dw dry weight |
| e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) |
| EC European Community |
| ECHA European Chemicals Agency |
| ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect |
| EEC European Economic Community |
| EINECS European Inventory of Existing Commercial Chemical Substances |
| ELINCS European List of Notified Chemical Substances |
| EN European Norms |
| EPA United States Environmental Protection Agency (United States of America) |
| $ErCx$, $E\mu Cx$, $ErLx$ (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) |
| etc. et cetera |
| EU European Union EVAL Ethylene-vinyl alcohol copolymer |
| Fax. Fax number |
| gen. general |
| GHS Globally Harmonized System of Classification and Labelling of Chemicals |
| GWP Global warming potential |
| Koc Adsorption coefficient of organic carbon in the soil |



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| Truck Series Complete Diesel System Cleaner |
| |
| Kow octanol-water partition coefficient |
| IARC International Agency for Research on Cancer |
| IATA International Air Transport Association |
| IBC (Code) International Bulk Chemical (Code) |
| IMDG-code International Maritime Code for Dangerous Goods |
| incl. including, inclusive |
| IUCLID International Uniform Chemical Information Database |
| IUPAC International Union for Pure Applied Chemistry |
| LC50 Lethal Concentration to 50 % of a test population |
| LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) |
| Log Koc Logarithm of adsorption coefficient of organic carbon in the soil |
| Log Kow, Log Pow Logarithm of octanol-water partition coefficient |
| LQ Limited Quantities |
| MARPOL International Convention for the Prevention of Marine Pollution from Ships |
| n.a. not applicable |
| n.av. not available |
| n.c. not checked |
| n.d.a. no data available |
| NIOSH National Institute for Occupational Safety and Health (USA) |
| NLP No-longer-Polymer |
| NOEC, NOEL No Observed Effect Concentration/Level |
| OECD Organisation for Economic Co-operation and Development |
| Org. organic |
| OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic |
| PBT persistent, bioaccumulative and toxic PE Polyethylene |
| PNEC Predicted No Effect Concentration |
| ppm parts per million |
| PVC Polyvinylchloride |
| REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, |
| Evaluation, Authorisation and Restriction of Chemicals) |
| REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List |
| Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. |
| RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International |
| Carriage of Dangerous Goods by Rail) |
| SVHC Substances of Very High Concern |
| Tel. Telephone |
| TOC Total organic carbon |
| UN RTDG United Nations Recommendations on the Transport of Dangerous Goods |
| VOC Volatile organic compounds |
| vPvB very persistent and very bioaccumulative |
| wwt wet weight |
| |
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| The statements made here should describe the product with regard to the necessary safety precautions - they are |

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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