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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)
Revision date / version: 18.07.2025 / 0021
Replacing version dated / version: 14.03.2024 / 0020
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PDF print date: 21.07.2025
Motorsystemreiniger Diesel
Diesel Engine System Cleaner

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

1.1 Product identifier

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

Relevant identified uses of the substance or mixture:

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

LIQUI MOLY UK
1310 Solihull Parkway
Birmingham Business Park
B37 7YB Solihull
Tel: +44 121 796 5365

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:



Landspítali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

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

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

| Hazard class | Hazard category | Hazard statement |
|-----------------|-----------------|---|
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| Aquatic Chronic | 2 | H411-Toxic to aquatic life with long lasting effects. |

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2.2 Label elements

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



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-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

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | |
|--|-----------------------------|
| Registration number (REACH) | 01-2119457273-39-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 918-481-9 |
| CAS | --- |
| content % | 60-80 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | 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 |

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| | |
|---|--|
| 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) |
| Specific Concentration Limits and ATE | ATE (oral): 500 mg/kg ATE (dermal): 1100 mg/kg ATE (as inhalation, Aerosol): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h |
| 2-ethylhexan-1-ol | 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 |
| 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 |
| Specific Concentration Limits and ATE | ATE (as inhalation, Vapours): 11 mg/l/4h ATE (as inhalation, Dusts or mist): 2,7 mg/l/4h |

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

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

Extinguishment powder

Foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Hydrocarbons

Toxic pyrolysis products.

Danger of explosion.

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

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.

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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.

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

| CE | Chemical Name | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | |
|------------------------|---------------|--|-----|
| WEL-TWA: 800 mg/m3 | | WEL-STEL: --- | --- |
| Monitoring procedures: | | <ul style="list-style-type: none">- Draeger - Hydrocarbons 0,1%/c (81 03 571)- Draeger - Hydrocarbons 2/a (81 03 581)- Compur - KITA-187 S (551 174) | |
| BMGV: --- | | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40) | |

| | | | | |
|--|----------------------|---------------------------------------|--|-----|
|  | Chemical Name | 2-ethylhexan-1-ol | | |
| WEL-TWA: 1 ppm (5,4 mg/m3) (WEL-TWA, EU) | | WEL-STEL: --- | | --- |
| Monitoring procedures: | | - Draeger - Alcohol 100/a (CH 29 701) | | |
| BMGV: --- | | Other information: --- | | |

2-ethylhexyl nitrate

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

| 2-ethylhexan-1-ol | | | | | | |
|---------------------|---|------------------------------|------------|--------|--------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | 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 bw/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 | |

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| | | | | | | |
|---------------------|--------------|-----------------------------|------|------|-------|--|
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 12,8 | mg/m3 | |
|---------------------|--------------|-----------------------------|------|------|-------|--|

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/EC). (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 (2004/37/EC). |
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/EC), (14) = The substance can cause sensitisation of the skin (2004/37/EC), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

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.
 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:
 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 the workplace limit value is exceeded.
 Gas mask filter A (EN 14387), code colour brown

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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: | Combustible. |
| 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 |
| Auto-ignition temperature: | There is no information available on this parameter. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | Mixture is non-soluble (in water). |
| Kinematic viscosity: | <7 mm ² /s (40°C) |
| Solubility: | Insoluble |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures. |
| Vapour pressure: | There is no information available on this parameter. |
| Density and/or relative density: | 0,834 g/ml (15°C) |
| Relative vapour density: | Vapours heavier than air. |
| Particle characteristics: | Does not apply to liquids. |

9.2 Other information

| | |
|--------------------|--|
| Explosives: | There is no information available on this parameter. |
| Oxidising liquids: | 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.

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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).

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| 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 sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

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

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|------------------------|--|---------------------------------------|
| Acute toxicity, by oral route: | LD50 | >5000 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3160 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >4951 | mg/m3 | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Serious eye damage/irritation: | | | | | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Respiratory or skin sensitisation: | | | | | OECD 406 (Skin Sensitisation) | Not sensitizing, Analogous conclusion |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Carcinogenicity: | | | | | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative, Analogous conclusion |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Negative, Analogous conclusion |

| | | | | | | |
|---|--|--|--|--|--|---|
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative, Analogous conclusion |
| Aspiration hazard: | | | | | | Yes |
| Symptoms: | | | | | | unconsciousness, headaches, dizziness, mucous membrane irritation |

| 2-ethylhexyl nitrate | | | | | | |
|---|----------|-------|------------|------------------------|---|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | ATE | 500 | mg/kg | | | |
| Acute toxicity, by dermal route: | ATE | 1100 | mg/kg | | | |
| Acute toxicity, by inhalation: | ATE | 11 | mg/l/4h | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 1,5 | mg/l/4h | | | Aerosol |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Human being | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEL | 20 | mg/kg bw/d | Rat | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative, oral |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | 500 | mg/kg bw/d | Rabbit | | Negative dermal |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 863 | mg/m3 | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours, Analogous conclusion(90 d) |
| Symptoms: | | | | | | headaches, dizziness, nausea, drop in blood pressure, diarrhoea, unconsciousness, eyes, reddened |

| 2-ethylhexan-1-ol | | | | | | |
|--------------------------------|----------|-----------|---------|----------|--------------------------------------|---------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by inhalation: | LC50 | 2,7 | mg/l/4h | | | Aerosol |
| Acute toxicity, by inhalation: | LC50 | >0,89-5,3 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Acute toxicity, by inhalation: | ATE | 11 | mg/l/4h | | | Vapours |
| Acute toxicity, by inhalation: | ATE | 2,7 | mg/l/4h | | | Dusts or mist |

| | | | | | | |
|---|-------|--------|------------|------------------------|--|---|
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) literature |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative Chinese hamster |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Carcinogenicity: | NOAEL | 750 | mg/kg bw/d | Mouse | OECD 451 (Carcinogenicity Studies) | Negative, oral |
| Reproductive toxicity: | NOAEL | 3000 | ppm | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative, oral |
| Reproductive toxicity (Developmental toxicity): | | | | Mouse | OECD 414 (Prenatal Developmental Toxicity Study) | Negative, oral |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 200 | mg/kg bw/d | Mouse | | |
| 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 |

11.2. Information on other hazards

| Motorsystemreiniger Diesel Diesel Engine 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-alkanes, isoalkanes, cyclics, <2% aromatics | | | | | | |
|--|----------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |

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| | | | | | | |
|--------------------|--|--|--|--|--|---|
| Other information: | | | | | | Repeated exposure may cause skin dryness or cracking. |
|--------------------|--|--|--|--|--|---|

SECTION 12: Ecological information

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

| Motorsystemreiniger Diesel Diesel Engine 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 degradability: | | | | | | | Isolate as much as possible with an oil separator. |
| 12.3. Bioaccumulative potential: | | | | | | | n.d.a. |
| 12.4. Mobility in soil: | | | | | | | n.d.a. |
| 12.5. Results of PBT and vPvB assessment | | | | | | | n.d.a. |
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. |
| Other information: | | | | | | | According to the recipe, contains no AOX. |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | | | | | | | |
|--|----------|------|---------|------|---------------------------------|--|-------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | NOELR | 28d | 0,101 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to fish: | LL50 | 96h | >1000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EL50 | 48h | >1000 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOELR | 21d | 0,176 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EL50 | 72h | >1000 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 80 | % | activated sludge | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | | 10-2500 | | | | High |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Other organisms: | EL50 | 48h | >1000 | mg/l | Tetrahymena pyriformis | | |

| | | | | | | | |
|-------------------|--|--|--|--|--|--|--------------------------------------|
| Water solubility: | | | | | | | Product floats on the water surface. |
|-------------------|--|--|--|--|--|--|--------------------------------------|

| 2-ethylhexyl nitrate | | | | | | | |
|--|----------|------|-------|------|---------------------------------|--|-------------------------------------|
| 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 | Pseudokirchneriella 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 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |

| 2-ethylhexan-1-ol | | | | | | | |
|----------------------------|----------|------|-------|------|-------------------------|---|-------|
| 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 CYANOBACTERIA, 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 CYANOBACTERIA, 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 value, Low |
| 12.4. Mobility in soil: | | | | | | | Not to be expected |
| 12.4. Mobility in soil: | Koc | | 800 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC50 | 24h | >300 | mg/l | activated sludge | | |
| Toxicity to bacteria: | EC50 | 3h | 540 | mg/l | Pseudomonas putida | | |
| Toxicity to bacteria: | EC50 | 12h | > 100 | mg/l | activated sludge | | |

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

General statements

Transport by road/by rail (ADR/RID)

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



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14.4. Packing group: III
14.5. Environmental hazards: environmentally hazardous
Tunnel 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:
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 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
14.5. Environmental hazards: environmentally hazardous



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

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 dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier 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): 89 %

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: 8
 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.

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
 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
 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 |
| 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 |
| 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, EpCx, 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 |
| 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 |
| mg/kg bw | mg/kg body weight |
| mg/kg bw/d, mg/kg bw/day | mg/kg body weight/day |
| mg/kg dw | mg/kg dry weight |
| mg/kg wwt | mg/kg wet weight |
| 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 |
| PE | Polyethylene |
| PNEC | Predicted No Effect Concentration |
| ppm | parts per million |

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PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-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

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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