

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

Diesel Additive K Green

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

Relevant identified uses of the substance or mixture:

Additives

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

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

| Hazard class | Hazard category | Hazard statement |
|-----------------|-----------------|--|
| Acute Tox. | 4 | H332-Harmful if inhaled. |
| Acute Tox. | 4 | H302-Harmful if swallowed. |
| Asp. Tox. | 1 | H304-May be fatal if swallowed and enters airways. |
| Carc. | 2 | H351-Suspected of causing cancer. |
| Aquatic Acute | 1 | H400-Very toxic to aquatic life. |
| Aquatic Chronic | 1 | H410-Very 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

H332-Harmful if inhaled. H302-Harmful if swallowed. H304-May be fatal if swallowed and enters airways. H351-Suspected of causing cancer. H410-Very toxic to aquatic life with long lasting effects.

P201-Obtain special instructions before use. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection.

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P308+P313-IF exposed or concerned: Get medical advice / attention. P331-Do NOT induce vomiting.

EUH044-Risk of explosion if heated under confinement.

EUH066-Repeated exposure may cause skin dryness or cracking.

EUH208-Contains Maleic anhydride, Formaldehyde . May produce an allergic reaction.

Naphthalene

Hydrocarbons, C10, aromatics, >1% naphthalene

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

2-ethylhexyl nitrate

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 contains a substance with endocrine disrupting properties. The substance is named in Section 3.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| | |
|--|--|
| 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 % | 40-50 |
| 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) |
| 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 |

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| | |
|---|---|
| CAS | --- |
| content % | 20-30 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Asp. Tox. 1, H304 |
| Hydrocarbons, C10, aromatics, >1% naphthalene | |
| Registration number (REACH) | 01-2119463588-24-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 919-284-0 |
| CAS | (64742-94-5) |
| content % | 5-15 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| 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 |
| 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 |
| Naphthalene | Substance for which an EU exposure limit value applies. |
| Registration number (REACH) | --- |
| Index | 601-052-00-2 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 202-049-5 |
| CAS | 91-20-3 |
| content % | 1-2 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) |
| Hydrocarbons, C10, aromatics, >1% naphthalene | |
| Registration number (REACH) | 01-2119463588-24-XXXX |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 919-284-0 |
| CAS | (64742-94-5) |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Carc. 2, H351 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Solvent naphtha (petroleum), heavy arom. | |
| Registration number (REACH) | 01-2119917229-35-XXXX |
| Index | 649-424-00-3 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 265-198-5 |
| CAS | 64742-94-5 |
| content % | 0,1-<1 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Irrit. 2, H315 Carc. 2, H351 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Phenol, dodecyl-, branched | SVHC-substance |
| Registration number (REACH) | Substance with endocrine disrupting properties. 01-2119513207-49-XXXX |

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|---|--|
| Index | 604-092-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 310-154-3 |
| CAS | 121158-58-5 |
| content % | 0,01-<0,3 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |

| Formaldehyde | Substance for which an EU exposure limit value applies. |
|---|--|
| Registration number (REACH) | --- |
| Index | 605-001-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-001-8 |
| CAS | 50-00-0 |
| content % | <0,2 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 (oral, as inhalation) |
| Specific Concentration Limits and ATE | Skin Corr. 1B, H314: >=25 % Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % Skin Sens. 1, H317: >=0,2 % STOT SE 3, H335: >=5 % |

| Maleic anhydride | |
|---|---|
| Registration number (REACH) | --- |
| Index | 607-096-00-9 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-571-6 |
| CAS | 108-31-6 |
| content % | <0,001 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH071 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (as inhalation) |
| Specific Concentration Limits and ATE | Skin Sens. 1A, H317: >=0,001 % |

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.

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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. 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.
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

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
Risk of explosion if heated under confinement.
Oxides of carbon
Oxides of nitrogen
Toxic gases

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.
Keep unprotected persons away.
Avoid inhalation, and 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.

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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.

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.
 Avoid inhalation of the vapours.
 If applicable, suction measures at the workstation or on the processing machine necessary.
 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.
 Do not store with flammable or self-igniting materials.
 Solvent resistant floor
 Keep protected from direct sunlight and temperatures over 50°C.
 Store in a well ventilated place.

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):
 600 mg/m3

| | | | |
|------------------------|--|---|--|
| Chemical Name | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics | | |
| WEL-TWA: 800 mg/m3 | WEL-STEL: --- | --- | |
| Monitoring procedures: | - | 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) | | |

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|--------------------------------|---|-----|
| Chemical Name | Hydrocarbons, C10, aromatics, >1% naphthalene | |
| WEL-TWA: 500 mg/m3 (Aromatics) | 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) | |
| BMGV: --- | Other information: --- | |

| | | |
|--------------------------------------|---|-----|
| Chemical Name | 2-Ethylhexanol | |
| WEL-TWA: 1 ppm (5,4 mg/m3) (WEL, EU) | WEL-STEL: --- | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Alcohol 100/a (CH 29 701) | |
| BMGV: --- | Other information: --- | |

| | | |
|--|--|-----|
| Chemical Name | Naphthalene | |
| WEL-TWA: 500 mg/m3 (Aromatics) (WEL), 10 ppm (50 mg/m3) (EU) | WEL-STEL: --- | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Compur - KITA-153 U(C) (551 182) - NIOSH 5506 (POLYNUCLEAR AROMATIC HYDROCARBONS by HPLC) - 1998 - NIOSH 5515 (POLYNUCLEAR AROMATIC HYDROCARBONS by GC) - 1994 - OSHA 35 (Naphthalene) - 1982 | |
| BMGV: --- | Other information: --- | |

| | | |
|--------------------------------|--|-----|
| Chemical Name | Hydrocarbons, C10, aromatics, >1% naphthalene | |
| WEL-TWA: 500 mg/m3 (Aromatics) | 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: --- | |

| | | |
|--------------------------------|--|-----|
| Chemical Name | Solvent naphtha (petroleum), heavy arom. | |
| WEL-TWA: 500 mg/m3 (Aromatics) | 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: --- | |

| | | |
|---|---|-----|
| Chemical Name | Formaldehyde | |
| WEL-TWA: 2 ppm (2,5 mg/m3) (WEL), 0,3 ppm (0,37 mg/m3) (EU) (Limit value of 0,62 mg/m3 or 0,5 ppm (8h) for the health care, funeral and embalming sectors until 11 July 2024. (EU)) | WEL-STEL: 2 ppm (2,5 mg/m3) (WEL), 0,6 ppm (0,74 mg/m3) (EU) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Activation tube for use in conjunction with Formaldehyde 0.2/a tube (81 01 141) - Draeger - Formaldehyde 0,2/a (67 33 081) - Draeger - Formaldehyde 2/a (81 01 751) - Compur - KITA-171 SA (554 616) - Compur - KITA-171 SB (549 319) - Compur - KITA-171 SC (509 859) - DFG (D) (Aldehyde), DFG (E) (Aldehydes) - 1996, 2002 - NIOSH 2016 (FORMALDEHYDE) - 2016 - NIOSH 2539 (ALDEHYDES, SCREENING) - 1994 - NIOSH 2541 (FORMALDEHYDE by GC) - 1994 - NIOSH 3500 (FORMALDEHYDE by VIS) - 1994 - NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 - NIOSH 5700 (FORMALDEHYDE ON DUST (TEXTILE OR WOOD)) - 2016 - OSHA ID-205 (Formaldehyde in workplace atmospheres (3M model 3721 monitor)) - 1989 - EU project BC/CEN/ENTR/000/2002-16 card 57-5 (2004) | |
| BMGV: --- | Other information: (14) (EU) | |

| | | |
|------------------------|------------------------|-----|
| Chemical Name | Maleic anhydride | |
| WEL-TWA: 1 mg/m3 | WEL-STEL: 3 mg/m3 | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: Sen | |

2-ethylhexyl nitrate

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| 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/m ³ | |
| 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/cm ² | |
| 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/m ³ | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,044 | mg/cm ² | |

| Hydrocarbons, C10, aromatics, >1% naphthalene | | | | | | |
|---|--|-----------------------------|------------|-------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 7,5 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 32 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 7,5 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 151 | mg/m ³ | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 12,5 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 151 | mg/m ³ | |

| 2-Ethylhexanol | | | | | | |
|---------------------|---|------------------|------------|--------|------------|------|
| 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 | |

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|---------------------|--------------------|------------------------------|------|------|-----------------------|--|
| 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/m ³ | |
| 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/m ³ | |
| 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/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 12,8 | mg/m ³ | |
| 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/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 53,2 | mg/m ³ | |
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 12,8 | mg/m ³ | |

Naphthalene

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|---|-----------------------------|------------|--------|-------------------|------|
| | Environment - freshwater | | PNEC | 2,4 | µg/l | |
| | Environment - marine | | PNEC | 0,24 | µg/l | |
| | Environment - sewage treatment plant | | PNEC | 2,9 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,0672 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 0,0672 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,0533 | mg/kg dry weight | |
| | Environment - sporadic (intermittent) release | | PNEC | 0,02 | mg/l | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 3,57 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 25 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 25 | mg/m ³ | |

Hydrocarbons, C10, aromatics, >1% naphthalene

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 7,5 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 32 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 7,5 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 12,5 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 151 | mg/m ³ | |

Solvent naphtha (petroleum), heavy arom.

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| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
|---------------------|--|-----------------------------|------------|-------|-------------------|------|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 226 | mg/kg bw/day | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 56,5 | mg/m ³ | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 8,13 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 384 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 192 | mg/m ³ | |

| Phenol, dodecyl-, branched | | | | | | |
|----------------------------|--|------------------------------|------------|--------|-------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,0074 | µg/l | |
| | Environment - sewage treatment plant | | PNEC | 100 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,226 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 0,0226 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,118 | mg/kg dw | |
| | Environment - oral (animal feed) | | PNEC | 4 | mg/kg | |
| | Environment - marine | | PNEC | 0,007 | µg/l | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 50 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 13,26 | mg/m ³ | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 1,26 | mg/kg bw/d | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,075 | mg/kg bw/d | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,79 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,075 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 166 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 44,18 | mg/m ³ | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,25 | mg/kg bw/d | |

| Formaldehyde | | | | | | |
|---------------------|--|------------------|------------|-------|----------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,44 | mg/l | |
| | Environment - marine | | PNEC | 0,44 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 4,44 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 0,19 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 2,3 | mg/kg dw | |

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|---------------------|--------------------------------|-----------------------------|------|-------|-----------------------|--|
| | Environment - sediment, marine | | PNEC | 2,3 | mg/kg dw | |
| | Environment - soil | | PNEC | 0,2 | mg/kg dw | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 3,2 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 0,1 | mg/m3 | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 102 | mg/kg body weight/day | |
| Consumer | Human - dermal | Long term, local effects | DNEL | 0,012 | mg/cm2 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4,1 | mg/kg body weight/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 9 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,375 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,6 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 240 | mg/kg body weight/day | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,037 | mg/cm2 | |

| Maleic anhydride | | | | | | |
|---------------------|--|------------------------------|------------|--------|------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,038 | mg/l | |
| | Environment - marine | | PNEC | 0,0038 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,379 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,296 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,0296 | mg/kg | |
| | Environment - soil | | PNEC | 0,037 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 44,6 | mg/l | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,081 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 0,2 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 0,4 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 0,8 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 0,04 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Long term, local effects | DNEL | 0,04 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 0,04 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, local effects | DNEL | 0,04 | mg/kg bw/d | |

GB 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 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.

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** = 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.
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 gloves made of polyvinyl alcohol (EN ISO 374).
Protective Viton® / fluoroelastomer gloves (EN ISO 374).
Minimum layer thickness in mm:
0,5
Permeation time (penetration time) in minutes:
≥ 240
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
At high concentrations:
Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state: | Liquid |
| Colour: | Darkish, Blue |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability: | There is no information available on this parameter. |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | >61 °C |
| Auto-ignition temperature: | There is no information available on this parameter. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | n.d.a. |
| Kinematic viscosity: | 2,4215 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: | 0,905 g/cm ³ (20°C) |
| Relative vapour density: | There is no information available on this parameter. |
| Particle characteristics: | Does not apply to liquids. |

9.2 Other information

No information available at present.

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

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

Reducing agent

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).

| Diesel Additive K Green | | | | | | |
|----------------------------------|----------|---------|---------|----------|-------------|------------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | ATE | 1110,61 | 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 |
| Acute toxicity, by inhalation: | ATE | 3,2-3,3 | mg/l/4h | | | calculated value, Aerosol |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |

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|---|--|--|--|--|--|--|
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | positive, the real Naphthalene content is $\geq 1\%$ |
| 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. |

| 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 |
| 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 | | Negativedermal |
| 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 |

| 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) | Analogous conclusion |

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|---|------|-------|-----------------------|------------------------|--|---|
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >4951 | mg/m ³ /4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion, 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 |

Hydrocarbons, C10, aromatics, >1% naphthalene

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|-------------------|----------|-------------|---------|
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC50 | >590 | mg/m ³ | Rat | | Vapours |
| Aspiration hazard: | | | | | | Yes |

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 Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >3000 | mg/kg | Rat | OECD 402 (Acute Dermal Toxicity) | |
| 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) | |
| 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 |

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|---|-------|--------|------------|------------------------|--|---|
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| 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 |
| Carcinogenicity: | NOAEL | 750 | mg/kg bw/d | Mouse | OECD 451 (Carcinogenicity Studies) | Negative |
| Reproductive toxicity: | NOAEL | 3000 | ppm | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Reproductive toxicity (Developmental toxicity): | | | | Mouse | OECD 414 (Prenatal Developmental Toxicity Study) | Negative oral |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Irritation of the respiratory tract, STOT SE 3, H335 |
| 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 | | |

| Naphthalene | | | | | | |
|------------------------------------|-----------------|--------------|-------------|-----------------|--------------------|-------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 490 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2500 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >110 | mg/l/4h | Rat | | Vapours |
| Respiratory or skin sensitisation: | | | | Guinea pig | | No (skin contact) |

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|-----------|--|--|--|--|--|---|
| Symptoms: | | | | | | lack of appetite, ataxia, breathing difficulties, unconsciousness , diarrhoea, cornea opacity, headaches, cramps, gastrointestinal disturbances, mucous membrane irritation, dizziness, nausea and vomiting., sweating, Reddening, eyes, reddened |
|-----------|--|--|--|--|--|---|

| Hydrocarbons, C10, aromatics, >1% naphthalene | | | | | | |
|---|----------|-------|-------|------------------------|---|---|
| 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 oral route: | LD50 | >5000 | mg/kg | Rat | OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) | |
| Acute toxicity, by oral route: | LD50 | 6318 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | Analogous conclusion |
| Acute toxicity, by inhalation: | LC50 | >4688 | mg/m3 | Rat | OECD 403 (Acute Inhalation Toxicity) | |
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant, Analogous conclusion |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact), Analogous conclusion |
| Germ cell mutagenicity: | | | | Mammalian | OECD 479 (Genetic Toxicology - In Vitro Sister Chromatid Exchange assay in Mammalian Cells) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative, Analogous conclusion |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion Chinese hamster |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |

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|---|-------|------|-------------------|-----------|--|--|
| Germ cell mutagenicity: | | | | Mammalian | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative, Analogous conclusion |
| Reproductive toxicity (Developmental toxicity): | NOAEL | >450 | mg/kg | Rat | OECD 415 (One-Generation Reproduction Toxicity Study) | Negative, Analogous conclusion |
| Reproductive toxicity (Effects on fertility): | | | | Rat | OECD 415 (One-Generation Reproduction Toxicity Study) | Negative, Analogous conclusion |
| Reproductive toxicity: | | | | | OECD 414 (Prenatal Developmental Toxicity Study) | Negative, Analogous conclusion |
| Reproductive toxicity: | | | | | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative, Analogous conclusion |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Vapours may cause drowsiness and dizziness., STOT SE 3, H336 |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | OECD 452 (Chronic Toxicity Studies) | Negative, Analogous conclusion |
| Aspiration hazard: | | | | | | Yes |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 750 | mg/kg | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative, Analogous conclusion |
| Symptoms: | | | | | | drowsiness, headaches, drowsiness, dizziness |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal: | NOAEL | 495 | mg/kg | Rat | OECD 411 (Subchronic Dermal Toxicity - 90-day Study) | Negative, Analogous conclusion |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 1000 | mg/m ³ | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Negative, Analogous conclusion |

Formaldehyde

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|------------------------------------|----------|-------|-------|----------|--|--------------------------|
| Acute toxicity, by dermal route: | LD50 | 270 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Corrosive, Skin Corr. 1B |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Skin Sens. 1 |

Maleic anhydride

| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|----------------------------------|----------|-------|---------|-------------|----------------------------------|-----------|
| Acute toxicity, by oral route: | LD50 | 1090 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | 2620 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | >4,35 | mg/l/4h | Mouse | | |
| Skin corrosion/irritation: | | | | Human being | | Corrosive |
| Skin corrosion/irritation: | | | | Rat | | Corrosive |

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| | | | | | | |
|---|-------|------|------------|------------|---|--|
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Sensitising (skin contact) |
| Respiratory or skin sensitisation: | | | | Rat | | Sensitising (inhalation) |
| Germ cell mutagenicity: | | | | | bacterial | References, Negative |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Rat | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Carcinogenicity: | NOAEL | >100 | mg/kg bw/d | Rat | | oral |
| Reproductive toxicity: | NOAEC | 650 | mg/kg bw/d | Rat | | |
| Reproductive toxicity: | NOAEL | 55 | mg/kg | Rat | OECD 416 (Two-generation Reproduction Toxicity Study) | |
| Symptoms: | | | | | | asthmatic symptoms, breathing difficulties, respiratory distress, burning of the membranes of the nose and throat, blisters, coughing, headaches, gastrointestinal disturbances, mucous membrane irritation, watering eyes, nausea |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 10 | mg/kg/d | Rat | OECD 452 (Chronic Toxicity Studies) | |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 3,3 | mg/m3 | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours |

11.2. Information on other hazards

| Diesel Additive K Green | | | | | | |
|----------------------------------|----------|-------|------|----------|-------------|---|
| 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).

| Diesel Additive K Green | | | | | | | |
|--|----------|------|-------|------|----------|-------------|---|
| 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: | | | | | | | n.d.a. |
| 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: | | | | | | | DOC-elimination degree(complexing organic substance) \geq 80%/28d: No |
| Other information: | AOX | | | % | | | According to the recipe, contains no AOX. |

| 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 - CO ₂ 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 |

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|-----------------------|------|----|-------|------|------------------|--|--|
| Toxicity to bacteria: | EC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
|-----------------------|------|----|-------|------|------------------|--|--|

| 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. |

| Hydrocarbons, C10, aromatics, >1% naphthalene | | | | | | | |
|---|----------|------|-------|------|---------------------------------|--|----------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 2-5 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3-10 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | EC50 | 72h | 1 - 3 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.2. Persistence and degradability: | | 28d | 58 | % | | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Inherent |
| 12.3. Bioaccumulative potential: | Log Pow | | 3,3 | | | | |
| 12.3. Bioaccumulative potential: | BCF | | <100 | | | | Low |

| 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) | |

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|--|-----------|-----|-------|------|-------------------------|---|-------------------------------------|
| 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: | | | 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 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 | | |

| Naphthalene | | | | | | | |
|--------------------------------------|-----------|------|----------|------|----------------------|-------------|--|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 1,99 | mg/l | Pimephales promelas | | Does not conform with EU classification. |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,11 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | >60d | 0,6 | mg/l | Daphnia pulex | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 1,6-24,1 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to algae: | ErC50 | 72h | 0,4 | mg/l | Skeletonema costatum | | |
| 12.2. Persistence and degradability: | | 28d | 2 | % | | | Not readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | 28d | 40-300 | | | | Lowfish |
| 12.4. Mobility in soil: | Koc | | 240-1300 | | | | |
| Other information: | BOD5 | | 0 | % | | | |

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|--------------------|---------|--|-----|---|--|--|--|
| Other information: | COD | | 22 | % | | | |
| Other information: | Log Pow | | 3,3 | | | | |

| Hydrocarbons, C10, aromatics, >1% naphthalene | | | | | | | |
|---|-----------|------|---------|------|---------------------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LL50 | 96h | 2-5 | mg/l | Oncorhynchus mykiss | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 3-10 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 0,48 | mg/l | Daphnia magna | | Analogous conclusion |
| 12.1. Toxicity to algae: | EL50 | 72h | 11 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.1. Toxicity to algae: | NOELR | 72h | 2,5 | mg/l | Pseudokirchneriella subcapitata | | |
| 12.2. Persistence and degradability: | | 28d | 58 | % | activated sludge | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable, Analogous conclusion |
| 12.3. Bioaccumulative potential: | Log Pow | | 2,8-6,5 | | | | High |
| 12.3. Bioaccumulative potential: | BCF | | 99-5780 | | | | High |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

| Phenol, dodecyl-, branched | | | | | | | |
|--------------------------------------|----------|------|-------|------|-------------|---------------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 0,14 | mg/l | Salmo salar | | |
| 12.2. Persistence and degradability: | | 28d | 10 | % | | OECD-Screening-Test | |

| Formaldehyde | | | | | | | |
|--|-----------|------|-------|------|-------------------------|---|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 41 | mg/l | Brachydanio rerio | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 5,8 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 6,4 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 4,89 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | DOC | 28d | 99 | % | | OECD 301 A (Ready Biodegradability - DOC Die-Away Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,35 | | | | Bioaccumulation is unlikely (LogPow < 1). |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |

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|-----------------------|------|----|----|------|------------------|--|--|
| Toxicity to bacteria: | EC50 | 3h | 19 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | |
|-----------------------|------|----|----|------|------------------|--|--|

| Maleic anhydride | | | | | | | |
|--|-----------|------|-----------------|------|---------------------------------|--|-------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 75 | mg/l | Oncorhynchus mykiss | | EPA-660/3-75-009 |
| 12.1. Toxicity to fish: | LC50 | 96h | 75 | mg/l | Lepomis macrochirus | | EPA-660/3-75-009 |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 10 | mg/l | Daphnia magna | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 42,81 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 74,32 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC10 | 72h | 11,8 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 29 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC10 | 72h | 23 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 7d | 98 | % | | OECD 301 E (Ready Biodegradability - Modified OECD Screening Test) | Hydrolysis |
| 12.3. Bioaccumulative potential: | Log Pow | | -2,61 - (-2,16) | | | | Not to be expected |
| 12.4. Mobility in soil: | Koc | | 1 | | | | Not to be expected |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 18h | 44,6 | mg/l | Pseudomonas putida | IUCLID Chem. Data Sheet (ESIS) | References |
| Other information: | Log Pow | | 1,62 | | | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 07 03 other fuels (including mixtures)

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Implement substance recycling.

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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, HYDROCARBONS, C10, AROMATICS) | |
| 14.3. Transport hazard class(es): | 9 |   |
| 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, HYDROCARBONS, C10, AROMATICS) | |
| 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, HYDROCARBONS, C10, AROMATICS) | |
| 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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Phenol, dodecyl-, branched

Formaldehyde

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

GB

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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 |
|-------------------|------------------|---|---|
| E1 | | 100 | 200 |

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): 88,3 %

Observe incident regulations.

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

Revised sections: 2, 3, 7, 8, 11, 12, 15, 16

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 |
|---|--|
| Acute Tox. 4, H332 | Classification according to calculation procedure. |
| Acute Tox. 4, H302 | Classification according to calculation procedure. |
| Asp. Tox. 1, H304 | Classification according to calculation procedure. |
| Carc. 2, H351 | Classification according to calculation procedure. |
| Aquatic Acute 1, H400 | Classification according to calculation procedure. |
| Aquatic Chronic 1, H410 | 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).

- H314 Causes severe skin burns and eye damage.
- H360F May damage fertility.
- H372 Causes damage to organs through prolonged or repeated exposure by inhalation.
- H317 May cause an allergic skin reaction.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.

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H341 Suspected of causing genetic defects.
 H351 Suspected of causing cancer.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H350 May cause cancer.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 EUH044 Risk of explosion if heated under confinement.
 EUH071 Corrosive to the respiratory tract.

Acute Tox. — Acute toxicity - inhalation
 Acute Tox. — Acute toxicity - oral
 Asp. Tox. — Aspiration hazard
 Carc. — Carcinogenicity
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Aquatic Chronic — Hazardous to the aquatic environment - chronic
 Acute Tox. — Acute toxicity - dermal
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects
 Skin Irrit. — Skin irritation
 Eye Irrit. — Eye irritation
 STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
 Skin Corr. — Skin corrosion
 Eye Dam. — Serious eye damage
 Repr. — Reproductive toxicity
 Skin Sens. — Skin sensitization
 Muta. — Germ cell mutagenicity
 Resp. Sens. — Respiratory sensitization
 STOT RE — Specific target organ toxicity - repeated exposure

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
 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

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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, EµCx, 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
 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
 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. 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 not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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