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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
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 Common Rail Additive

## 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

#### Common Rail Additive

#### 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:

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#### 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 | 3               | H412-Harmful to aquatic life with long lasting effects. |

#### 2.2 Label elements

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



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## Danger

H304-May be fatal if swallowed and enters airways. H412-Harmful 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<br>Asp. Tox. 1, H304 |

  

| 2-Ethylhexylnitrate  |   |
|--|---|
| Registration number (REACH)  | 01-2119539586-27-XXXX   |
| Index  | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 248-363-6   |
| CAS  | 27247-96-7  |
| content %  | 10-<25  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Aquatic Chronic 2, H411 |

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.

## SECTION 4: First aid measures

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## 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. Consult doctor immediately.  
Danger of aspiration.  
In case of vomiting, keep head low so that the stomach content does not reach the lungs.  
Immediate admittance to a hospital.

## 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.  
Ingestion:

Nausea  
Vomiting  
Danger of aspiration.  
Oedema of the lungs  
Chemical pneumonitis (condition similar to pneumonia)

## 4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.  
Pulmonary oedema prophylaxis  
Subsequent observation for pneumonia and pulmonary oedema.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:  
Oxides of carbon  
Oxides of nitrogen  
Toxic gases  
Flammable vapour/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

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## 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.

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

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.

## 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

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, sawdust) 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.

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.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming.

Store in a well ventilated place.

## 7.3 Specific end use(s)

No information available at present.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

800 mg/m3

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

| 2-Ethylhexylnitrate |  |                             |            |              |                 |      |
|---------------------|--|-----------------------------|------------|--------------|-----------------|------|
| 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 - sediment                     |                             | PNEC       | 0,00074      | mg/kg dw        |      |
|                     | Environment - soil                         |                             | PNEC       | 0,00019<br>1 | mg/kg dw        |      |
| Consumer            | Human - dermal                             | Long term, systemic effects | DNEL       | 0,52         | mg/kg<br>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<br>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<br>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          |      |

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.  
\*\* = 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:

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

Skin protection - Hand protection:

Chemical 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:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 14387), code colour brown

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state:   | Liquid   |
| Colour:   | Red-brown  |
| 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:   | Flammable  |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| 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 <sup>2</sup> /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:                          | 0,8265 g/ml (15°C)                                   |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

Explosives: Product is not explosive.

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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

No dangerous reactions are known.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 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                             |
| Acute toxicity, by inhalation:                                | ATE      | >5    | mg/l/4h |          |             | calculated value, Aerosol                             |
| Skin corrosion/irritation:                                    |          |       |         |          |             | Repeated exposure may cause skin dryness or cracking. |
| 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)               | Analogous conclusion               |
| Acute toxicity, by dermal route: | LD50     | >5000 | mg/kg    | Rabbit   | OECD 402 (Acute Dermal Toxicity)             | Analogous conclusion               |
| Acute toxicity, by inhalation:   | LC50     | >4951 | mg/m3/4h | Rat      | OECD 403 (Acute Inhalation Toxicity)         | Analogous conclusion, Vapours      |
| Skin corrosion/irritation:       |          |       |          |          | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion |



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|---|--|--|--|------------------------|--|---|
| Serious eye damage/irritation:                                |  |  |  |                        | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant, Analogous conclusion                                |
| Respiratory or skin sensitisation:                            |  |  |  |                        | OECD 406 (Skin Sensitisation)                                  | Not sensitising, 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-Ethylhexylnitrate                |          |       |         |                        |  |   |
|------------------------------------|----------|-------|---------|------------------------|--|---|
| Toxicity / effect                  | Endpoint | Value | Unit    | Organism               | Test method  | Notes   |
| Acute toxicity, by dermal route:   |          |       |         |                        |  | Experiences on persons., Harmful                                    |
| Acute toxicity, by inhalation:     |          |       |         |                        |  | Experiences on persons., Harmful                                    |
| Acute toxicity, by inhalation:     | LCLo     | >4,6  | mg/l/1h | Rat                    |  | Mist  |
| 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:            |          |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)               | Negative  |
| Germ cell mutagenicity:            |          |       |         | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative  |
| Germ cell mutagenicity:            |          |       |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative  |



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|   |       |     |               |     |  |   |
|---|-------|-----|---------------|-----|--|---|
| Reproductive toxicity:  | NOAEL | 100 | mg/kg<br>bw/d |     | OECD 421<br>(Reproduction/Developmental Toxicity Screening Test) | Negative  |
| Reproductive toxicity<br>(Developmental toxicity):                      |       |     |               | Rat | OECD 414 (Prenatal Developmental Toxicity Study)                 | Analogous conclusion  |
| Symptoms:   |       |     |               |     |  | drying of the skin., may cause headaches and vertigo., nausea, drop in blood pressure, diarrhoea, unconsciousness |
| 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   |

## 11.2. Information on other hazards

| Common Rail Additive             |          |       |      |          |             |   |
|----------------------------------|----------|-------|------|----------|-------------|---|
| 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   |
| 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).

| Common Rail Additive                     |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| 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. |

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|                    |  |  |  |  |  |  |   |
|--------------------|--|--|--|--|--|--|---|
| Other information: |  |  |  |  |  |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |
| Other information: |  |  |  |  |  |  | DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.                                  |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |      |       |      |                                 |  |                                      |
|--|----------|------|-------|------|---------------------------------|--|--------------------------------------|
| Toxicity / effect  | Endpoint | Time | Value | Unit | Organism                        | Test method  | Notes                                |
| 12.5. Results of PBT and vPvB assessment                             |          |      |       |      |                                 |  | No PBT substance, No vPvB substance  |
| Water solubility:  |          |      |       |      |                                 |  | Product floats on the water surface. |
| 12.1. Toxicity to fish:  | LL50     | 96h  | >1000 | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                      |
| 12.1. Toxicity to fish:  | NOELR    | 28d  | 0,101 | mg/l | Oncorhynchus mykiss             |  |                                      |
| 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                |
| Other organisms:   | EL50     | 48h  | >1000 | mg/l | Tetrahymena pyriformis          |  |                                      |

| 2-Ethylhexylnitrate                  |           |      |       |      |                                 |  |                           |
|--------------------------------------|-----------|------|-------|------|---------------------------------|--|---------------------------|
| 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  | >12,6 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                           |                           |
| 12.1. Toxicity to algae:             | EC50      | 72h  | 3,22  | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                                    |                           |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 96h  | 1,42  | mg/l |                                 |  |                           |
| 12.2. Persistence and degradability: |           | 28d  | 0     | %    |                                 | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable |

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|  |         |    |           |      |                  |   |  |
|--|---------|----|-----------|------|------------------|---|--|
| 12.3. Bioaccumulative potential:         | BCF     |    | 1332      |      |                  |   |  |
| 12.3. Bioaccumulative potential:         | Log Pow |    | 3,74-5,24 |      |                  |   | A notable biological accumulation potential has to be expected (LogPow > 3). |
| 12.5. Results of PBT and vPvB assessment |         |    |           |      |                  |   | No PBT substance, No vPvB substance  |
| 12.4. Mobility in soil:                  | Log Koc |    | 3,75      |      |                  | OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC) |  |
| Toxicity to bacteria:                    | EC50    | 3h | >1000     | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))          |  |
| Other information:                       | AOX     |    | 0         | %    |                  |   | No   |
| Water solubility:                        |         |    |           |      |                  |   | Slight   |

## 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)

13 07 03 other fuels (including mixtures)

Recommendation:

Sewage disposal shall be discouraged.  
Pay attention to local and national official regulations.  
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

14.1. UN number or ID number: n.a.

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: n.a.

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LQ: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

#### Transport by sea (IMDG-code)

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14.2. UN proper shipping name:  
14.3. Transport hazard class(es): n.a.  
14.4. Packing group: n.a.  
Marine Pollutant: n.a.  
14.5. Environmental hazards: Not applicable

### Transport by air (IATA)

14.2. UN proper shipping name:  
14.3. Transport hazard class(es): n.a.  
14.4. Packing group: n.a.  
14.5. Environmental hazards: Not applicable

### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

### 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

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

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

Directive 2010/75/EU (VOC): 95,435 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 1-16  
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 3, H412   | Classification according to calculation procedure. |

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

H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H411 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

### Key literature references and sources for data:

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

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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  
 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, ElCx (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)

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Log K<sub>oc</sub>            Logarithm of adsorption coefficient of organic carbon in the soil  
Log K<sub>ow</sub>, Log P<sub>ow</sub>            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

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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