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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
Revision date / version: 15.04.2026 / 0030  
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Valid from: 15.04.2026  
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Pro-Line Drosselklappenreiniger  
Pro-Line Throttle Valve Cleaner

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

**Pro-Line Drosselklappenreiniger**  
**Pro-Line Throttle Valve Cleaner**

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

Cleaner

#### Uses advised against:

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

GB

LIQUI MOLY GmbH  
Jerg-Wieland-Str. 4  
89081 Ulm-Lehr  
Tel.: (+49) 0731-1420-0  
Fax: (+49) 0731-1420-88

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

Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto: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:

GB

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

#### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)  
+1 872 5888271 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Hazard class | Hazard category | Hazard statement                                                                            |
|--------------|-----------------|---------------------------------------------------------------------------------------------|
| Acute Tox.   | 4               | H332-Harmful if inhaled.                                                                    |
| STOT RE      | 2               | H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). |

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|                 |   |                                                         |
|-----------------|---|---------------------------------------------------------|
| Eye Irrit.      | 2 | H319-Causes serious eye irritation.                     |
| STOT SE         | 3 | H335-May cause respiratory irritation.                  |
| Skin Irrit.     | 2 | H315-Causes skin irritation.                            |
| Skin Sens.      | 1 | H317-May cause an allergic skin reaction.               |
| Asp. Tox.       | 1 | H304-May be fatal if swallowed and enters airways.      |
| STOT SE         | 3 | H336-May cause drowsiness or dizziness.                 |
| Aquatic Chronic | 3 | H412-Harmful to aquatic life with long lasting effects. |
| Aerosol         | 1 | H222-Extremely flammable aerosol.                       |
| Aerosol         | 1 | H229-Pressurised container: May burst if heated.        |

## 2.2 Label elements

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



Danger

H332-Harmful if inhaled. H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H336-May cause drowsiness or dizziness. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P260-Do not breathe vapours or spray. P271-Use only outdoors or in a well-ventilated area. P280-Wear protective gloves / eye protection / face protection.

P312-Call a POISON CENTRE / doctor if you feel unwell. P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

Without adequate ventilation, formation of explosive mixtures may be possible.

Acetone

Benzyl alcohol

Reaction mass of ethylbenzene and xylene

## 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

| Reaction mass of ethylbenzene and xylene                               | Substance for which an EU exposure limit value applies.                                                                                                                                                               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119488216-32-XXXX                                                                                                                                                                                                 |
| Index                                                                  | ---                                                                                                                                                                                                                   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 905-588-0                                                                                                                                                                                                             |
| CAS                                                                    | ---                                                                                                                                                                                                                   |
| content %                                                              | 40-<50                                                                                                                                                                                                                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373 (organs of hearing)<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |
| Specific Concentration Limits and ATE                                  | ATE (dermal): 1100 mg/kg<br>ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h<br>ATE (as inhalation, Vapours): 11 mg/l/4h                                                                                               |

| Acetone                                                                | Substance for which an EU exposure limit value applies.               |
|------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119471330-49-XXXX                                                 |
| Index                                                                  | 606-001-00-8                                                          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 200-662-2                                                             |
| CAS                                                                    | 67-64-1                                                               |
| content %                                                              | 25-<30                                                                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

| Benzyl alcohol                                                         | Substance for which an EU exposure limit value applies.         |
|------------------------------------------------------------------------|-----------------------------------------------------------------|
| Registration number (REACH)                                            | 01-2119492630-38-XXXX                                           |
| Index                                                                  | 603-057-00-5                                                    |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 202-859-9                                                       |
| CAS                                                                    | 100-51-6                                                        |
| content %                                                              | 10-<15                                                          |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 |
| Specific Concentration Limits and ATE                                  | ATE (oral): 1200 mg/kg                                          |

| Carbon dioxide                                                         | Substance for which an EU exposure limit value applies. |
|------------------------------------------------------------------------|---------------------------------------------------------|
| Registration number (REACH)                                            | ---                                                     |
| Index                                                                  | ---                                                     |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 204-696-9                                               |
| CAS                                                                    | 124-38-9                                                |
| content %                                                              | 1-<5                                                    |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | ---                                                     |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

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!

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## 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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

## Eye contact

Remove contact lenses.

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

## Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

## 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

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

Symptomatic treatment.

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

CO<sub>2</sub>

Extinction powder

Water jet spray

### 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

Toxic gases

Danger of bursting (explosion) when heated

Possible build up of explosive/highly flammable vapour/air mixture.

## 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.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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## 6.2 Environmental precautions

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

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

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

Fill the absorbed material into lockable containers.

## 6.4 Reference to other sections

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

# SECTION 7: Handling and storage

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

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

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.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special storage conditions.

Observe special regulations for aerosols!

Do not store with flammable or self-igniting materials.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

Store cool.

## 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

| Chemical Name                                                                                                                                   | Reaction mass of ethylbenzene and xylene                                                                                                              |     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|
| WEL-TWA: 220 mg/m3 (50 ppm) (WEL-TWA), 50 ppm (221 mg/m3) (EU) (Xylene) / 441mg/m3 (100 ppm) (WEL-TWA), 100 ppm (442 mg/m3) (EU) (Ethylbenzene) | WEL-STEL: 441 mg/m3 (100 ppm) (WEL-STEL), 100 ppm (442 mg/m3) (EU) (Xylene) / 552 mg/m3 (125 ppm) (WEL-STEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene) | --- |  |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monitoring procedures: | INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 47-1 (2004)<br>- OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999<br>- Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Draeger - Hydrocarbons 2/a (81 03 581) |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                               |                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV) (Xylene) | Other information: Sk (WEL) (Xylene) / Sk (WEL) (Ethylbenzene) |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|

**Chemical Name** Acetone

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 500 ppm (1210 mg/m3) (WEL-TWA, EU) | WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | --- |
| Monitoring procedures:                      | - Draeger - Acetone 100/b (CH 22 901)<br>- Draeger - Acetone 40/a (5) (81 03 381)<br>- Compur - KITA-102 SA (548 534)<br>- Compur - KITA-102 SC (548 550)<br>- Compur - KITA-102 SD (551 109)<br>INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004)<br>MDHS 72 (Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993<br>- NIOSH 1300 (KETONES I) - 1994<br>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996<br>- NIOSH 2555 (KETONES I) - 2003<br>NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016<br>- OSHA 69 (Acetone) - 1988 |     |
| BMGV: ---                                   | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |

**Chemical Name** Carbon dioxide

|                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| WEL-TWA: 5000 ppm (9150 mg/m3) (WEL-TWA), 5000 ppm (9000 mg/m3) (EU) | WEL-STEL: 15000 ppm (27400 mg/m3) (WEL-STEL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | --- |
| Monitoring procedures:                                               | - Draeger - Carbon Dioxide 0,1%/a (CH 23 501)<br>- Draeger - Carbon Dioxide 0,5%/a (CH 31 401)<br>- Draeger - Carbon Dioxide 1%/a (CH 25 101)<br>- Draeger - Carbon Dioxide 100/a (81 01 811)<br>- Draeger - Carbon Dioxide 5%/A (CH 20 301)<br>- Compur - KITA-126 B (549 475)<br>- Compur - KITA-126 SA (549 467)<br>- Compur - KITA-126 SB (548 816)<br>- Compur - KITA-126 SF (549 491)<br>- Compur - KITA-126 SG (550 210)<br>- Compur - KITA-126 SH (549 509)<br>- Compur - KITA-126 UH (549 517)<br>- NIOSH 6603 (Carbon dioxide) - 1994<br>- OSHA ID-172 (Carbon dioxide in workplace atmospheres) - 1990 |     |
| BMGV: ---                                                            | Other information: ---                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |

**Reaction mass of ethylbenzene and xylene**

| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit     | Note |
|---------------------|--------------------------------------------|------------------|------------|-------|----------|------|
|                     | Environment - freshwater                   |                  | PNEC       | 0,044 | mg/l     |      |
|                     | Environment - marine                       |                  | PNEC       | 0,004 | mg/l     |      |
|                     | Environment - sewage treatment plant       |                  | PNEC       | 1,6   | mg/l     |      |
|                     | Environment - sediment, freshwater         |                  | PNEC       | 2,52  | mg/kg dw |      |
|                     | Environment - sediment, marine             |                  | PNEC       | 0,252 | mg/kg dw |      |
|                     | Environment - soil                         |                  | PNEC       | 0,852 | mg/kg dw |      |

|                     |                                                      |                              |      |      |              |  |
|---------------------|------------------------------------------------------|------------------------------|------|------|--------------|--|
|                     | Environment - water, sporadic (intermittent) release |                              | PNEC | 0,01 | mg/l         |  |
| Consumer            | Human - dermal                                       | Long term, systemic effects  | DNEL | 125  | mg/kg bw/day |  |
| Consumer            | Human - oral                                         | Long term, systemic effects  | DNEL | 5    | mg/kg bw/d   |  |
| Consumer            | Human - inhalation                                   | Long term, systemic effects  | DNEL | 65,3 | mg/m3        |  |
| Consumer            | Human - inhalation                                   | Short term, systemic effects | DNEL | 260  | mg/m3        |  |
| Consumer            | Human - inhalation                                   | Long term, local effects     | DNEL | 65,3 | mg/m3        |  |
| Consumer            | Human - inhalation                                   | Short term, local effects    | DNEL | 260  | mg/m3        |  |
| Workers / employees | Human - inhalation                                   | Long term, systemic effects  | DNEL | 221  | mg/m3        |  |
| Workers / employees | Human - inhalation                                   | Long term, local effects     | DNEL | 221  | mg/m3        |  |
| Workers / employees | Human - inhalation                                   | Short term, systemic effects | DNEL | 442  | mg/m3        |  |
| Workers / employees | Human - dermal                                       | Long term, systemic effects  | DNEL | 212  | mg/kg bw/d   |  |

| Acetone             |                                               |                             |            |       |              |                              |
|---------------------|-----------------------------------------------|-----------------------------|------------|-------|--------------|------------------------------|
| Area of application | Exposure route / Environmental compartment    | Effect on health            | Descriptor | Value | Unit         | Note                         |
|                     | Environment - marine                          |                             | PNEC       | 1,06  | mg/l         | Assessment factor 500        |
|                     | Environment - freshwater                      |                             | PNEC       | 10,6  | mg/l         | Assessment factor 50         |
|                     | Environment - sediment, freshwater            |                             | PNEC       | 30,4  | mg/kg dw     |                              |
|                     | Environment - sediment, marine                |                             | PNEC       | 3,04  | mg/kg dw     |                              |
|                     | Environment - soil                            |                             | PNEC       | 29,5  | mg/kg dw     |                              |
|                     | Environment - sewage treatment plant          |                             | PNEC       | 100   | mg/l         |                              |
|                     | Environment - sporadic (intermittent) release |                             | PNEC       | 21    | mg/l         | Assessment factor 100        |
| Consumer            | Human - oral                                  | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day | Overall assessment factor 2  |
| Consumer            | Human - dermal                                | Long term, systemic effects | DNEL       | 62    | mg/kg bw/day | Overall assessment factor 20 |
| Consumer            | Human - inhalation                            | Long term, systemic effects | DNEL       | 200   | mg/m3        | Overall assessment factor 5  |
| Workers / employees | Human - dermal                                | Long term, systemic effects | DNEL       | 186   | mg/kg bw/day |                              |
| Workers / employees | Human - inhalation                            | Short term, local effects   | DNEL       | 2420  | mg/m3        |                              |
| Workers / employees | Human - inhalation                            | Long term, systemic effects | DNEL       | 1210  | mg/m3        |                              |

| Benzyl alcohol      |                                            |                  |            |       |       |      |
|---------------------|--------------------------------------------|------------------|------------|-------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit  | Note |
|                     | Environment - soil                         |                  | PNEC       | 0,456 | mg/kg |      |

|                     |                                      |                              |      |       |            |  |
|---------------------|--------------------------------------|------------------------------|------|-------|------------|--|
|                     | Environment - sewage treatment plant |                              | PNEC | 39    | mg/l       |  |
|                     | Environment - sediment, freshwater   |                              | PNEC | 5,27  | mg/kg      |  |
|                     | Environment - sediment, marine       |                              | PNEC | 0,527 | mg/kg      |  |
|                     | Environment - marine                 |                              | PNEC | 0,1   | mg/l       |  |
|                     | Environment - periodic release       |                              | PNEC | 2,3   | mg/l       |  |
|                     | Environment - freshwater             |                              | PNEC | 1     | mg/l       |  |
| Consumer            | Human - dermal                       | Short term, systemic effects | DNEL | 20    | mg/kg bw/d |  |
| Consumer            | Human - dermal                       | Long term, systemic effects  | DNEL | 4     | mg/kg bw/d |  |
| Consumer            | Human - oral                         | Short term, systemic effects | DNEL | 20    | mg/kg bw/d |  |
| Consumer            | Human - oral                         | Long term, systemic effects  | DNEL | 4     | mg/kg bw/d |  |
| Consumer            | Human - inhalation                   | Short term, systemic effects | DNEL | 27    | mg/m3      |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects  | DNEL | 5,4   | mg/m3      |  |
| Workers / employees | Human - dermal                       | Short term, systemic effects | DNEL | 40    | mg/kg bw/d |  |
| Workers / employees | Human - dermal                       | Long term, systemic effects  | DNEL | 8     | mg/kg bw/d |  |
| Workers / employees | Human - inhalation                   | Short term, systemic effects | DNEL | 110   | mg/m3      |  |
| Workers / employees | Human - inhalation                   | Long term, systemic effects  | DNEL | 22    | mg/m3      |  |

| Dimethyl adipate    |                                               |                  |            |        |       |      |
|---------------------|-----------------------------------------------|------------------|------------|--------|-------|------|
| Area of application | Exposure route / Environmental compartment    | Effect on health | Descriptor | Value  | Unit  | Note |
|                     | Environment - marine                          |                  | PNEC       | 0,0018 | mg/l  |      |
|                     | Environment - soil                            |                  | PNEC       | 0,09   | mg/kg |      |
|                     | Environment - sediment, marine                |                  | PNEC       | 0,016  | mg/kg |      |
|                     | Environment - sediment, freshwater            |                  | PNEC       | 0,16   | mg/kg |      |
|                     | Environment - freshwater                      |                  | PNEC       | 0,018  | mg/l  |      |
|                     | Environment - sporadic (intermittent) release |                  | PNEC       | 0,18   | mg/l  |      |
|                     | Environment - sewage treatment plant          |                  | PNEC       | 10     | mg/l  |      |
| Industrial          | Human - inhalation                            | Long term        | DNEL       | 8,3    | mg/m3 |      |
| Consumer            | Human - inhalation                            | Long term        | DNEL       | 5      | mg/m3 |      |

| Dimethyl glutarate  |                                            |                  |            |        |       |      |
|---------------------|--------------------------------------------|------------------|------------|--------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value  | Unit  | Note |
|                     | Environment - sediment, marine             |                  | PNEC       | 0,015  | mg/kg |      |
|                     | Environment - sediment, freshwater         |                  | PNEC       | 0,15   | mg/kg |      |
|                     | Environment - marine                       |                  | PNEC       | 0,0031 | mg/l  |      |
|                     | Environment - freshwater                   |                  | PNEC       | 0,031  | mg/l  |      |
|                     | Environment - soil                         |                  | PNEC       | 0,113  | mg/kg |      |

|                     |                                               |                          |      |      |       |  |
|---------------------|-----------------------------------------------|--------------------------|------|------|-------|--|
|                     | Environment - sporadic (intermittent) release |                          | PNEC | 0,31 | mg/l  |  |
|                     | Environment - sewage treatment plant          |                          | PNEC | 10   | mg/l  |  |
| Workers / employees | Human - inhalation                            | Long term, local effects | DNEL | 8,3  | mg/m3 |  |

| Dimethyl succinate  |                                            |                             |            |       |              |      |
|---------------------|--------------------------------------------|-----------------------------|------------|-------|--------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit         | Note |
|                     | Environment - freshwater                   |                             | PNEC       | 1,39  | mg/l         |      |
|                     | Environment - marine                       |                             | PNEC       | 0,233 | mg/l         |      |
|                     | Environment - sewage treatment plant       |                             | PNEC       | 10    | mg/l         |      |
|                     | Environment - sediment, freshwater         |                             | PNEC       | 8,58  | mg/kg        |      |
|                     | Environment - sediment, marine             |                             | PNEC       | 1,44  | mg/kg        |      |
|                     | Environment - soil                         |                             | PNEC       | 0,899 | mg/kg        |      |
| Workers / employees | Human - inhalation                         | Long term, systemic effects | DNEL       | 6,7   | mg/m3        |      |
| Workers / employees | Human - inhalation                         | Long term, local effects    | DNEL       | 1,1   | mg/m3        |      |
| Workers / employees | Human - dermal                             | Long term, systemic effects | DNEL       | 0,95  | mg/kg bw/day |      |

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |

| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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Eye/face protection:

Tight fitting protective goggles with side protection (EN ISO 16321-1).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves made of butyl (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

> 30

Protective hand cream recommended.

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.

Skin protection - Other:

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

Respiratory protection:

If the workplace limit value is exceeded.

Filter A P2 (EN 14387), code colour brown, white

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:

Aerosol. Active substance: liquid.

Colour:

Light yellow

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:

Does not apply to aerosols.

Lower explosion limit:

There is no information available on this parameter.

Upper explosion limit:

There is no information available on this parameter.

Flash point:

-19 °C (The flash-point of the mixture was not tested, but complies with the ingredient with the lowest value. )

Auto-ignition temperature:

Does not apply to aerosols.

Decomposition temperature:

There is no information available on this parameter.

pH:

Mixture is non-soluble (in water).

Kinematic viscosity:

Does not apply to aerosols.

Solubility:

There is no information available on this parameter.

Partition coefficient n-octanol/water (log value):

Does not apply to mixtures.

Vapour pressure:

4900 hPa (20°C)

Density and/or relative density:

~0,87 g/cm3

Relative vapour density:

Does not apply to aerosols.

Particle characteristics:

Does not apply to aerosols.

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## 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

No dangerous reactions are known.

### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

See also section 5.2

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).

#### Pro-Line Drosselklappenreiniger

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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      | 3,7   | mg/l/4h |          |             | calculated value, Aerosol |
| Skin corrosion/irritation:                                    |          |       |         |          |             | n.d.a.                    |
| Serious eye damage/irritation:                                |          |       |         |          |             | n.d.a.                    |
| Respiratory or skin sensitisation:                            |          |       |         |          |             | n.d.a.                    |
| Germ cell mutagenicity:                                       |          |       |         |          |             | n.d.a.                    |
| Carcinogenicity:                                              |          |       |         |          |             | n.d.a.                    |
| Reproductive toxicity:                                        |          |       |         |          |             | n.d.a.                    |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |         |          |             | n.d.a.                    |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |         |          |             | n.d.a.                    |
| Aspiration hazard:                                            |          |       |         |          |             | n.d.a.                    |
| Symptoms:                                                     |          |       |         |          |             | n.d.a.                    |

#### Reaction mass of ethylbenzene and xylene

| Toxicity / effect                | Endpoint | Value     | Unit  | Organism | Test method                                        | Notes                                    |
|----------------------------------|----------|-----------|-------|----------|----------------------------------------------------|------------------------------------------|
| Acute toxicity, by oral route:   | LD50     | 3523-4000 | mg/kg | Rat      | Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY) |                                          |
| Acute toxicity, by dermal route: | LD50     | 12126     | mg/kg | Rabbit   |                                                    | Does not conform with EU classification. |
| Acute toxicity, by dermal route: | ATE      | 1100      | mg/kg |          |                                                    |                                          |

|                                                                         |       |      |            |       |                                                                |                                                                                  |
|-------------------------------------------------------------------------|-------|------|------------|-------|----------------------------------------------------------------|----------------------------------------------------------------------------------|
| Acute toxicity, by inhalation:                                          | ATE   | 11   | mg/l/4h    |       |                                                                | Vapours                                                                          |
| Acute toxicity, by inhalation:                                          | ATE   | 1,5  | mg/l/4h    |       |                                                                | Dusts or mist                                                                    |
| Acute toxicity, by inhalation:                                          | LC50  | 6350 | mg/l/4h    | Rat   | Regulation (EC) 440/2008 B.2 (ACUTE TOXICITY (INHALATION))     | Vapours, Does not conform with EU classification.                                |
| Respiratory or skin sensitisation:                                      |       |      |            | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay)         | No (skin contact)                                                                |
| Carcinogenicity:                                                        |       |      |            | Rat   | Regulation (EC) 440/2008 B.32 (CARCINOGENICITY TEST)           | Negative                                                                         |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |       |      |            |       |                                                                | Irritation of the respiratory tract, STOT SE 3, H335                             |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | LOAEL | 150  | mg/kg bw/d | Rat   | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                  |
| Symptoms:                                                               |       |      |            |       |                                                                | drowsiness, headaches, fatigue, dizziness, unconsciousness, nausea and vomiting. |

| Acetone                                         |          |           |         |                        |                                                          |                                                                     |
|-------------------------------------------------|----------|-----------|---------|------------------------|----------------------------------------------------------|---------------------------------------------------------------------|
| Toxicity / effect                               | Endpoint | Value     | Unit    | Organism               | Test method                                              | Notes                                                               |
| Acute toxicity, by oral route:                  | LD50     | 5800-7190 | mg/kg   | Rat                    | OECD 401 (Acute Oral Toxicity)                           |                                                                     |
| Acute toxicity, by dermal route:                | LD50     | >15800    | mg/kg   | Rat                    |                                                          |                                                                     |
| Acute toxicity, by inhalation:                  | LC50     | 76        | mg/l/4h | Rat                    |                                                          | Vapours, female                                                     |
| Skin corrosion/irritation:                      |          |           |         | Guinea pig             |                                                          | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:                  |          |           |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                | Eye Irrit. 2                                                        |
| Respiratory or skin sensitisation:              |          |           |         | Guinea pig             | OECD 406 (Skin Sensitisation)                            | Not sensitizing                                                     |
| 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                                                            |
| Carcinogenicity:                                |          |           |         | Mouse                  |                                                          | Negative, References                                                |
| Reproductive toxicity (Developmental toxicity): | NOAEC    | 2200      | ppm     | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)         | Negative                                                            |

|                                                                     |       |     |            |     |                                                                |                                                                                                                                         |
|---------------------------------------------------------------------|-------|-----|------------|-----|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Specific target organ toxicity - single exposure (STOT-SE):         |       |     |            |     |                                                                | STOT SE 3, H336, May cause drowsiness or dizziness.                                                                                     |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |                                                                                                                                         |
| Symptoms:                                                           |       |     |            |     |                                                                | unconsciousness, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness |

| Benzyl alcohol                                                          |          |         |         |             |                                                        |                                                                                                       |
|-------------------------------------------------------------------------|----------|---------|---------|-------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Toxicity / effect                                                       | Endpoint | Value   | Unit    | Organism    | Test method                                            | Notes                                                                                                 |
| Acute toxicity, by oral route:                                          | LD50     | 1230    | mg/kg   | Rat         |                                                        |                                                                                                       |
| Acute toxicity, by oral route:                                          | ATE      | 1200    | mg/kg   |             |                                                        |                                                                                                       |
| Acute toxicity, by dermal route:                                        | LD50     | >2000   | mg/kg   | Rabbit      |                                                        |                                                                                                       |
| Acute toxicity, by inhalation:                                          | LC50     | > 4,178 | mg/l/4h | Rat         | OECD 403 (Acute Inhalation Toxicity)                   | Aerosol                                                                                               |
| Skin corrosion/irritation:                                              |          |         |         | Rabbit      | OECD 404 (Acute Dermal Irritation/Corrosion)           | Slightly irritant                                                                                     |
| Serious eye damage/irritation:                                          |          |         |         | Rabbit      | OECD 405 (Acute Eye Irritation/Corrosion)              | Eye Irrit. 2                                                                                          |
| Respiratory or skin sensitisation:                                      |          |         |         | Human being | (Patch-Test)                                           | Skin Sens. 1B                                                                                         |
| Germ cell mutagenicity:                                                 |          |         |         | Mouse       | OECD 474 (Mammalian Erythrocyte Micronucleus Test)     | Negative                                                                                              |
| Reproductive toxicity:                                                  | NOAEC    | 1072    | mg/m3   | Rat         |                                                        |                                                                                                       |
| Specific target organ toxicity - repeated exposure (STOT-RE):           | NOAEL    | 200     | mg/kg   | Mouse       |                                                        |                                                                                                       |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC    | 1072    | mg/m3   | Rat         | OECD 412 (Subacute Inhalation Toxicity - 28-Day Study) | Aerosol                                                                                               |
| Symptoms:                                                               |          |         |         |             |                                                        | headaches, fatigue, dizziness, nausea and vomiting., drying of the skin., unconsciousness, drowsiness |

| Carbon dioxide    |          |       |      |          |             |       |
|-------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |

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|           |  |  |  |  |  |                                                                                                                                                                            |
|-----------|--|--|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms: |  |  |  |  |  | unconsciousness<br>, blisters by skin-<br>contact,<br>vomiting,<br>frostbite,<br>annoyance,<br>palpitations,<br>itching,<br>headaches,<br>cramps, ear<br>noises, dizziness |
|-----------|--|--|--|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 11.2. Information on other hazards

| Pro-Line Drosselklappenreiniger<br>Pro-Line Throttle Valve Cleaner |          |       |      |          |             |                                                                       |
|--------------------------------------------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                                                  | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
| Endocrine disrupting properties:                                   |          |       |      |          |             | Does not apply to mixtures.                                           |
| Other information:                                                 |          |       |      |          |             | No other relevant information available on adverse effects on health. |

| Carbon dioxide                   |          |       |      |          |             |       |
|----------------------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: |          |       |      |          |             | No    |

## SECTION 12: Ecological information

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

| Pro-Line Drosselklappenreiniger<br>Pro-Line Throttle Valve Cleaner |          |      |       |      |          |             |        |
|--------------------------------------------------------------------|----------|------|-------|------|----------|-------------|--------|
| Toxicity / effect                                                  | Endpoint | Time | Value | Unit | Organism | Test method | Notes  |
| 12.1. Toxicity to fish:                                            |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to daphnia:                                         |          |      |       |      |          |             | n.d.a. |
| 12.1. Toxicity to algae:                                           |          |      |       |      |          |             | n.d.a. |

|                                          |     |  |   |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------|-----|--|---|---|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.2. Persistence and degradability:     |     |  |   |   |  |  | The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |
| 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)>= 80%/28d: No                                                                                                                                                                                                                                                                                                              |
| Other information:                       | AOX |  | 0 | % |  |  | According to the recipe, contains no AOX.                                                                                                                                                                                                                                                                                                                                       |

| Reaction mass of ethylbenzene and xylene |           |      |       |      |                                 |                                                  |                      |
|------------------------------------------|-----------|------|-------|------|---------------------------------|--------------------------------------------------|----------------------|
| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                        | Test method                                      | Notes                |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 2,6   | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)             | Analogous conclusion |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 7d   | 0,96  | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |
| 12.1. Toxicity to daphnia:               | IC50      | 24h  | 1     | mg/l | Daphnia magna                   |                                                  |                      |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 2,2   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)          | Analogous conclusion |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 0,44  | mg/l |                                 |                                                  |                      |

|                                          |           |     |      |      |                  |                                                                    |                                     |
|------------------------------------------|-----------|-----|------|------|------------------|--------------------------------------------------------------------|-------------------------------------|
| 12.2. Persistence and degradability:     |           | 28d | 90   | %    |                  | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | BCF       |     | 25,9 |      |                  |                                                                    | Low, Analogous conclusion           |
| 12.5. Results of PBT and vPvB assessment |           |     |      |      |                  |                                                                    | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | NOEC/NOEL | 28d | 16   | mg/l | activated sludge |                                                                    |                                     |

| Acetone                              |           |      |            |      |                                 |                                                                                                 |                              |
|--------------------------------------|-----------|------|------------|------|---------------------------------|-------------------------------------------------------------------------------------------------|------------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value      | Unit | Organism                        | Test method                                                                                     | Notes                        |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 5540       | mg/l | Oncorhynchus mykiss             |                                                                                                 |                              |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 7500       | mg/l | Leuciscus idus                  |                                                                                                 |                              |
| 12.1. Toxicity to fish:              | LC50      | 96h  | 8300       | mg/l | Lepomis macrochirus             |                                                                                                 |                              |
| 12.1. Toxicity to fish:              | EC50      | 96h  | 8300       | mg/l | Lepomis macrochirus             |                                                                                                 |                              |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 28d  | 2212       | mg/l | Daphnia pulex                   | OECD 211 (Daphnia magna Reproduction Test)                                                      |                              |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 6100-12700 | mg/l | Daphnia magna                   |                                                                                                 |                              |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | 8800       | mg/l | Daphnia pulex                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                                |                              |
| 12.1. Toxicity to algae:             | EC50      | 48h  | 4740       | mg/l | Pseudokirchneriella subcapitata |                                                                                                 |                              |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 48h  | 3400       | mg/l | Pseudokirchneriella subcapitata |                                                                                                 |                              |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 8d   | 530        | mg/l |                                 | DIN 38412 T.9                                                                                   | Test organism: M. aeruginosa |
| 12.2. Persistence and degradability: |           | 30d  | 81-92      | %    |                                 | Regulation (EC) 440/2008 C.4-E (DETERMINATION OF 'READY' BIODEGRADABILITY - CLOSED BOTTLE TEST) | Readily biodegradable        |
| 12.2. Persistence and degradability: |           | 28d  | 91         | %    |                                 | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)                                         | Readily biodegradable        |
| 12.2. Persistence and degradability: |           | 28d  | 91         | %    |                                 | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)                                        | Readily biodegradable        |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | -0,24      |      |                                 | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)                         |                              |
| 12.3. Bioaccumulative potential:     | BCF       |      | 3          |      |                                 |                                                                                                 | Low                          |

|                                          |         |       |           |      |                     |                                                                                          |                                     |
|------------------------------------------|---------|-------|-----------|------|---------------------|------------------------------------------------------------------------------------------|-------------------------------------|
| 12.4. Mobility in soil:                  |         |       |           |      |                     |                                                                                          | No adsorption in soil.              |
| 12.5. Results of PBT and vPvB assessment |         |       |           |      |                     |                                                                                          | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10    | 30min | 1000      | mg/l | activated sludge    | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |                                     |
| Toxicity to bacteria:                    | BOD/COD | 16h   | 1700      | mg/l | Pseudomonas putida  |                                                                                          |                                     |
| Other organisms:                         | EC5     | 72h   | 28        | mg/l | Entosiphon sulcatum |                                                                                          |                                     |
| Other information:                       | BOD5    |       | 1760-1900 | mg/g |                     |                                                                                          |                                     |
| Other information:                       | AOX     |       | 0         | %    |                     |                                                                                          |                                     |
| Other information:                       | COD     |       | 2070-2100 | mg/g |                     |                                                                                          |                                     |

| Benzyl alcohol                           |           |      |       |      |                                 |                                                              |                                     |
|------------------------------------------|-----------|------|-------|------|---------------------------------|--------------------------------------------------------------|-------------------------------------|
| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                        | Test method                                                  | Notes                               |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 460   | mg/l | Pimephales promelas             |                                                              |                                     |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 230   | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)             |                                     |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 51    | mg/l | Daphnia magna                   | OECD 211 (Daphnia magna Reproduction Test)                   |                                     |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 770   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                      |                                     |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | 310   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                      |                                     |
| 12.2. Persistence and degradability:     |           | 21d  | 95-97 | %    |                                 | OECD 301 A (Ready Biodegradability - DOC Die-Away Test)      | Readily biodegradable               |
| 12.2. Persistence and degradability:     |           | 14d  | 92-96 | %    |                                 | OECD 301 C (Ready Biodegradability - Modified MITI Test (I)) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow   |      | 1,1   |      |                                 |                                                              | Low                                 |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                                 |                                                              | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | IC50      |      | 2100  | mg/l | activated sludge                | ISO 8192                                                     | 49h                                 |
| Toxicity to bacteria:                    | EC10      | 16h  | 658   | mg/l | Pseudomonas putida              |                                                              |                                     |

| Carbon dioxide          |          |      |       |      |                 |             |       |
|-------------------------|----------|------|-------|------|-----------------|-------------|-------|
| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism        | Test method | Notes |
| 12.1. Toxicity to fish: | LC50     | 96h  | 35    | mg/l | Salmo gairdneri |             |       |

|                                          |         |  |      |  |  |  |                                     |
|------------------------------------------|---------|--|------|--|--|--|-------------------------------------|
| 12.3. Bioaccumulative potential:         | Log Kow |  | 0,83 |  |  |  |                                     |
| 12.5. Results of PBT and vPvB assessment |         |  |      |  |  |  | No PBT substance, No vPvB substance |
| 12.7. Other adverse effects:             |         |  |      |  |  |  | Greenhouse effect                   |
| Global warming potential (GWP):          |         |  | 1    |  |  |  |                                     |
| Water solubility:                        |         |  |      |  |  |  | Soluble                             |

## 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)

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

#### For contaminated packing material

Pay attention to local and national official regulations.

If applicable

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 04 metallic packaging

## SECTION 14: Transport information

### General statements

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

|                                   |                |
|-----------------------------------|----------------|
| 14.1. UN number or ID number:     | 1950           |
| 14.2. UN proper shipping name:    |                |
| UN 1950 AEROSOLS                  |                |
| 14.3. Transport hazard class(es): | 2.1            |
| 14.4. Packing group:              | -              |
| 14.5. Environmental hazards:      | Not applicable |
| Tunnel restriction code:          | D              |
| Classification code:              | 5F             |
| LQ:                               | 1 L            |
| Transport category:               | 2              |



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

|                                   |                |
|-----------------------------------|----------------|
| 14.1. UN number or ID number:     | 1950           |
| 14.2. UN proper shipping name:    |                |
| UN 1950 AEROSOLS                  |                |
| 14.3. Transport hazard class(es): | 2.1            |
| 14.4. Packing group:              | -              |
| 14.5. Environmental hazards:      | Not applicable |
| Marine Pollutant:                 | Not applicable |
| EmS:                              | F-D, S-U       |



#### Transport by air (IATA)

|                                |      |
|--------------------------------|------|
| 14.1. UN number or ID number:  | 1950 |
| 14.2. UN proper shipping name: |      |

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 Valid from: 15.04.2026  
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 Pro-Line Throttle Valve Cleaner

UN 1950 Aerosols, flammable  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 14.5. Environmental hazards: Not applicable



#### 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 the protection of young people at work (national implementation of the Directive 94/33/EC)!  
 This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| P3b               | 11.1, 11.2       | 5000 (netto)                                                                                                                          | 50000 (netto)                                                                                                                         |

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): ~ 94,8 %

#### REGULATION (EC) No 648/2004

30 % and more

aromatic hydrocarbons

BENZYL ALCOHOL

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:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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Pro-Line Drosselklappenreiniger

Pro-Line Throttle Valve Cleaner

## 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.  |
| STOT RE 2, H373                                                       | Classification according to calculation procedure.  |
| Eye Irrit. 2, H319                                                    | Classification according to calculation procedure.  |
| STOT SE 3, H335                                                       | Classification according to calculation procedure.  |
| Skin Irrit. 2, H315                                                   | Classification according to calculation procedure.  |
| Skin Sens. 1, H317                                                    | Classification according to calculation procedure.  |
| Asp. Tox. 1, H304                                                     | Classification according to calculation procedure.  |
| STOT SE 3, H336                                                       | Classification according to calculation procedure.  |
| Aquatic Chronic 3, H412                                               | Classification according to calculation procedure.  |
| Aerosol 1, H222                                                       | Classification according to calculation procedure.  |
| Aerosol 1, H229                                                       | Classification based on the form or physical state. |

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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Acute Tox. — Acute toxicity - inhalation

STOT RE — Specific target organ toxicity - repeated exposure

Eye Irrit. — Eye irritation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Skin Sens. — Skin sensitization

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aerosol — Aerosols

Flam. Liq. — Flammable liquid

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - oral

## Key literature references and sources for data:

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

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

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

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

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

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

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

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

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, 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

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight

mg/kg wwt            mg/kg wet weight

n.a.    not applicable

n.av.   not available

n.c.    not checked

n.d.a.   no data available

NIOSH   National Institute for Occupational Safety and Health (USA)

NLP    No-longer-Polymer

NOEC, NOEL    No Observed Effect Concentration/Level

OECD   Organisation for Economic Co-operation and Development

org.    organic

OSHA   Occupational Safety and Health Administration (USA)

PBT    Persistent, bioaccumulative and toxic

PE    Polyethylene

PMT   Persistent, mobile and toxic

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.            6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID    Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC   Substances of Very High Concern

Tel.    Telephone

TOC    Total organic carbon

UN RTDG    United Nations Recommendations on the Transport of Dangerous Goods

VOC    Volatile organic compounds

vPvB   Very persistent and very bioaccumulative

vPvM   Very persistent and very mobile

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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