# PETROL INJECTOR CLEANER

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 8/12/2011 Revision date: 11/13/2023 Version: 1.1

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

### 1.1. Product identifier

Product form : Mixture
Product name : PETROL INJECTOR CLEANER
UFI : XW3P-P0PC-A00S-7JQP
Product code : 7628

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Fuel additives

#### 1.2.2. Uses advised against

No additional information available

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

**Manufacturer**
Millers Oils Ltd
Hillside Oilworks Rastrick Common
HD6 3DP Brighouse – West Yorkshire
United Kingdom
T +44 (0)1484 713201 - F +44 (0)1484 721263
h.s@millersoils.co.uk

### 1.4. Emergency telephone number

Emergency number : +44 (0)1484 713201

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| United Kingdom | NHS 111/NHS 24/NHS Direct | | 111<br>0845 4647 | or call a doctor |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :

GHS08

Signal word (CLP) : Danger
Contains : HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS; HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE

| | | |
|---|---|---|
| Hazard statements (CLP) | : | H304 - May be fatal if swallowed and enters airways.<br>H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : | P331 - Do NOT induce vomiting.<br>P405 - Store locked up.<br>P102 - Keep out of reach of children.<br>P273 - Avoid release to the environment.<br>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.<br>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS substance with a Community workplace exposure limit | EC-No.: 926-141-6<br>REACH-no: 01-2119456620-43 | ≥ 70 | Asp. Tox. 1, H304 |
| 2-ethylhexan-1-ol<br>substance with national workplace exposure limit(s) (BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, RO, SE, SI, SK, IS, NO, RS, CH); substance with a Community workplace exposure limit | CAS-No.: 104-76-7<br>EC-No.: 203-234-3<br>REACH-no: 01-2119487289-20 | ≥ 1 – < 10 | Acute Tox. 4 (Inhalation:gas), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |
| HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE | EC-No.: 918-811-1<br>REACH-no: 01-2119463583-34 | ≥ 1 – < 10 | Aquatic Chronic 2, H411<br>Asp. Tox. 1, H304<br>STOT SE 3, H336 |
| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] | CAS-No.: 68603-38-3<br>EC-No.: 271-653-9<br>REACH-no: 01-2119951823-33 | < 10 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411 |
| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | EC-No.: 907-745-9<br>REACH-no: 01-2119538013-51 | < 1 | Eye Dam. 1, H318<br>Aquatic Chronic 1, H410 |
| Hydrocarbons, C10, aromatics, >1% naphthalene substance with a Community workplace exposure limit | CAS-No.: 64742-94-5<br>EC-No.: 919-284-0<br>REACH-no: 01-2119463588-24 | < 1 | STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| naphthalene<br>substance with national workplace exposure limit(s) (BE, BG, CZ, DE, DK, EE, ES, FI, FR, GR, HR, HU, IE, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, RS, CH); substance with a Community workplace exposure limit | CAS-No.: 91-20-3<br>EC-No.: 202-049-5<br>EC Index-No.: 601-052-00-2 | < 1 | Carc. 2, H351<br>Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 2,2'-iminodiethanol; diethanolamine<br>substance with national workplace exposure limit(s) (BE, BG, CZ, DE, DK, EE, ES, FI, FR, GR, HR, IE, LT, PL, PT, SE, SI, IS, NO, CH) | CAS-No.: 111-42-2<br>EC-No.: 203-868-0<br>EC Index-No.: 603-071-00-1<br>REACH-no: 01-2119488930-28 | < 1 | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Get medical advice/attention if you feel unwell. Rinse mouth.

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

Symptoms/effects after ingestion : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Water.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. See section 8 of the SDS for more information on personal protective equipment.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Stop leak if safe to do so. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation. Absorb spilled material with sand or earth.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA [ppm] | 200 ppm |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | 2-ethylhexan-1-ol |
| IOEL TWA | 5.4 mg/m³ |
| IOEL TWA [ppm] | 1 ppm |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | 2-ethylhexan-1-ol |
| WEL TWA (OEL TWA) [1] | 5.4 mg/m³ |
| WEL TWA (OEL TWA) [2] | 1 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| IOEL TWA | 50 mg/m³ |
| IOEL TWA [ppm] | 10 ppm |

| naphthalene (91-20-3) | |
|---|---|
| **EU - Indicative Occupational Exposure Limit (IOEL)** | |
| Local name | Naphthalene |
| IOEL TWA | 50 mg/m³ |
| IOEL TWA [ppm] | 10 ppm |
| Remark | (Year of adoption 2010) |
| Regulatory reference | COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Acute - local effects, inhalation | 53.2 mg/m³ |
| Long-term - systemic effects, dermal | 23 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 12.8 mg/m³ |
| Long-term - local effects, inhalation | 53.2 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Acute - local effects, inhalation | 26.6 mg/m³ |
| Long-term - systemic effects,oral | 1.1 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.3 mg/m³ |
| Long-term - systemic effects, dermal | 11.4 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 26.6 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.017 mg/l |
| PNEC aqua (marine water) | 0.0017 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.17 mg/l |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 0.284 mg/kg dwt |
| PNEC sediment (marine water) | 0.0284 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 0.047 mg/kg dwt |
| **PNEC (Oral)** | |
| PNEC oral (secondary poisoning) | 55 mg/kg food |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 10 mg/l |

| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] (68603-38-3) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 4.16 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 93.6 µg/cm² |
| Long-term - systemic effects, inhalation | 73.44 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 6.25 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 21.73 mg/m³ |
| Long-term - systemic effects, dermal | 2.5 mg/kg bodyweight/day |
| Long-term - local effects, dermal | 56.2 µg/cm² |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 7 µg/l |
| PNEC aqua (marine water) | 0.7 µg/l |
| PNEC aqua (intermittent, freshwater) | 12 µg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 211.15 µg/kg dw |
| **PNEC (Soil)** | |
| PNEC soil | 99.79 µg/kg dw |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 0.83 g/l |

| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 0.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 3.5 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.3 µg/l |
| PNEC aqua (marine water) | 0.03 µg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 0.09 mg/kg dwt |

| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | |
|---|---|
| PNEC sediment (marine water) | 0.009 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 0.044 mg/kg dwt |
| **PNEC (Oral)** | |
| PNEC oral (secondary poisoning) | 8.33 mg/kg food |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 2.4 mg/l |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 12.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 151 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 7.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 32 mg/m³ |
| Long-term - systemic effects, dermal | 7.5 mg/kg bodyweight/day |

| naphthalene (91-20-3) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 3.57 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 25 mg/m³ |
| Long-term - local effects, inhalation | 25 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 2.4 µg/l |
| PNEC aqua (marine water) | 2.4 µg/l |
| PNEC aqua (intermittent, freshwater) | 20 µg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 67.2 µg/kg dw |
| PNEC sediment (marine water) | 67.2 µg/kg dw |
| **PNEC (Soil)** | |
| PNEC soil | 53.3 µg/kg dw |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 2.9 mg/l |

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| **DNEL/DMEL (Workers)** | |
| Long-term - systemic effects, dermal | 0.13 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.75 mg/m³ |
| Long-term - local effects, inhalation | 0.5 mg/m³ |
| **DNEL/DMEL (General population)** | |
| Long-term - systemic effects,oral | 0.06 mg/kg bodyweight/day |

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| Long-term - systemic effects, inhalation | 0.125 mg/m³ |
| Long-term - systemic effects, dermal | 0.07 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 0.125 mg/m³ |
| **PNEC (Water)** | |
| PNEC aqua (freshwater) | 0.021 mg/l |
| PNEC aqua (marine water) | 0.002 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.095 mg/l |
| **PNEC (Sediment)** | |
| PNEC sediment (freshwater) | 0.096 mg/kg dwt |
| PNEC sediment (marine water) | 0.0092 mg/kg dwt |
| **PNEC (Soil)** | |
| PNEC soil | 1.63 mg/kg dwt |
| **PNEC (Oral)** | |
| PNEC oral (secondary poisoning) | 1.04 mg/kg food |
| **PNEC (STP)** | |
| PNEC sewage treatment plant | 100 mg/l |

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment symbol(s):**

#### 8.2.2.1. Eye and face protection

**Eye protection:**
Safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**
No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Not available |
| Odour | : | Barely perceptible odour. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Non flammable. |
| Explosive limits | : | Not available |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 65 °C |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Insoluble. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | 0.83 |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Oxidizing agent. Strong acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | |
|---|---|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal | > 5000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | ≤ mg/l/4h |
| LC50 Inhalation - Rat (Vapours) | > 5000 mg/l/4h |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| LD50 oral rat | ≈ 2047 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | 0.89 – 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

| HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE | |
|---|---|
| LD50 dermal | 2000 mg/kg |

| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] (68603-38-3) | |
|---|---|
| LD50 oral rat | > 3000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: other: |

| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | |
|---|---|
| LD50 oral rat | 2976 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2667 - 3551 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| naphthalene (91-20-3) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 0.4 mg/l air Animal: rat, Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity) |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 64 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies) |

Reproductive toxicity : Not classified

| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | |
|---|---|
| NOAEL (animal/male, F0/P) | 100 mg/kg bodyweight Animal: rat, Animal sex: male |

| naphthalene (91-20-3) | |
|---|---|
| LOAEL (animal/female, F0/P) | 50 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other: |
| LOAEL (animal/female, F1) | 450 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other: |
| NOAEL (animal/female, F0/P) | 120 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: other: |

STOT-single exposure : Not classified

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| STOT-single exposure | May cause respiratory irritation. |

| HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, gas, 90 days) | 120 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |

| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] (68603-38-3) | |
|---|---|
| NOAEL (oral, rat, 90 days) | > 750 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| NOAEL (oral, rat, 90 days) | 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity) |

| naphthalene (91-20-3) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| LOAEC (inhalation, rat, vapour, 90 days) | 0.011 mg/l air Animal: rat, Guideline: EPA OPP 82-4 (90-Day Inhalation Toxicity), Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| NOAEL (oral, rat, 90 days) | 200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (dermal, rat/rabbit, 90 days) | 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| LOAEL (dermal, rat/rabbit, 90 days) | 32 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study) |

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.003 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : May be fatal if swallowed and enters airways.

| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | |
|---|---|
| Viscosity, kinematic | ≤ 2000000 mm²/s @40oC |

| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] (68603-38-3) | |
|---|---|
| Viscosity, kinematic | 1299.756 mm²/s |

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 11.2.2. Other information

No additional information available

# SECTION 12: Ecological information

## 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

Not rapidly degradable

| HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | |
|---|---|
| LC50 - Fish [1] | > 1000 (2 – 5) mg/l |
| EC50 - Crustacea [1] | > 1000 mg/l |
| EC50 - Other aquatic organisms [1] | 1.4 mg/l |
| EC50 72h - Algae [1] | > 1000 mg/l |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|---|
| LC50 - Fish [1] | 17.1 mg/l Test organisms (species): Leuciscus idus melanotus |
| LC50 - Fish [2] | 28.2 mg/l Test organisms (species): Pimephales promelas |
| EC50 - Crustacea [1] | 39 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 11.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2] | 16.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| HYDROCARBONS, C10, AROMATICS, <1% NAPHTHALENE | |
|---|---|
| LC50 - Fish [1] | 2 – 5 mg/l |
| EC50 - Other aquatic organisms [1] | 3 – 10 mg/l |

| Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) [This substance is identified by SDA Substance Name: C16-C18 and C18 unsaturated alkyl carboxylic acid amide diethanol and SDA Reporting Number: 11-024-00.] (68603-38-3) | |
|---|---|
| LC50 - Fish [1] | 1.2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | ≈ 3.2 mg/l Test organisms (species): Daphnia magna |
| LOEC (chronic) | 0.24 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | 0.32 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d' |

| Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol | |
|---|---|
| LC50 - Fish [1] | 0.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 0.4 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 4.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

| Hydrocarbons, C10, aromatics, >1% naphthalene (64742-94-5) | |
|---|---|
| LC50 - Fish [1] | 2 – 5 mg/l |
| EC50 - Crustacea [1] | 3 – 10 mg/l |
| EC50 72h - Algae [1] | 1 – 3 mg/l |

| naphthalene (91-20-3) | |
|---|---|
| EC50 - Crustacea [1] | 2.16 mg/l Test organisms (species): Daphnia magna |
| NOEC (chronic) | 0.59 mg/l Test organisms (species): Daphnia pulex Duration: '125 d' |

| 2,2'-iminodiethanol; diethanolamine (111-42-2) | |
|---|---|
| LC50 - Fish [1] | 460 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 30.1 mg/l Test organisms (species): Ceriodaphnia dubia |
| EC50 - Crustacea [2] | 89.9 mg/l Test organisms (species): Ceriodaphnia dubia |
| LOEC (chronic) | 1.56 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC (chronic) | 0.78 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |

## 12.2. Persistence and degradability

| PETROL INJECTOR CLEANER | |
|---|---|
| Persistence and degradability | Not established. |

## 12.3. Bioaccumulative potential

| PETROL INJECTOR CLEANER | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.2. UN proper shipping name** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.3. Transport hazard class(es)** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.4. Packing group** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.5. Environmental hazards** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**
Not regulated

**Transport by sea**
Not regulated

**Air transport**
Not regulated

**Inland waterway transport**
Not regulated

**Rail transport**
Not regulated

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: | |
|---|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |

| Abbreviations and acronyms: | |
|---|---|
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 4 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |

| Full text of H- and EUH-statements: | |
|---|---|
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.