

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 6/14/2011 Revision date: 11/10/2023 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Product name : DIESEL INJECTOR CLEANER
UFI : UT3P-50YY-1009-K74M

Product code : 7627

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 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) : Dar

Contains : HYDROCARBONS, C11-14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P331 - Do NOT induce vomiting.

P405 - Store locked up.

P102 - Keep out of reach of children. P273 - Avoid release to the environment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. 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 REACH-no: 01-2119456620- 43	≥ 70	Asp. Tox. 1, H304
2-ethylhexyl nitrate	CAS-No.: 27247-96-7 EC-No.: 248-363-6 REACH-no: 01-2119539586- 27	≥ 1 – < 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
2-ethylhexan-1-ol 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 EC-No.: 203-234-3 REACH-no: 01-2119487289- 20	< 1	Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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. Call a poison center or a

doctor 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.

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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

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

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".

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

: Absorb spilled material with sand or earth. For large spills, confine the spill in a dike and For containment

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

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

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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)	EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-ethylhexan-1-ol	
IOEL TWA	5.4 mg/m³	
IOEL TWA [ppm]	1 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
United Kingdom - Occupational Exposure Limits		
ocal 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	

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-ethylhexyl nitrate (27247-96-7)			
DNEL/DMEL (Workers)	DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day		
Long-term - local effects, dermal	44 μg/cm²		
Long-term - systemic effects, inhalation	0.35 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	25 μg/kg bodyweight/day		
Long-term - systemic effects, inhalation	87 μg/m³		
Long-term - systemic effects, dermal	0.52 mg/kg bodyweight/day		
Long-term - local effects, dermal	22 μg/cm²		
PNEC (Water)	PNEC (Water)		
PNEC aqua (freshwater)	0.83 μg/l		
PNEC aqua (marine water)	83 ng/l		
PNEC aqua (intermittent, freshwater)	8.3 µg/l		
PNEC aqua (intermittent, marine water)	0.83 μg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.47 mg/kg dwt		

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2-ethylhexyl nitrate (27247-96-7)			
PNEC (soli) PNEC soli 93.5 µg/kg dw PNEC (STP) PNEC sewage treatment plant 10 mg/t 2-ethylhexan-1-ol (104-76-7) DNEL/DMEL (Workors) Acute - local effects, inhalation 53.2 mg/kg bodyweight/day Long-term - systemic effects, dermal 23 mg/kg bodyweight/day Long-term - systemic effects, inhalation 53.2 mg/m³ DNEL/DMEL (General population) Acute - local effects, inhalation 26.6 mg/m³ Long-term - systemic effects, inhalation 2.3 mg/m³ Long-term - systemic effects, inhalation 2.3 mg/m³ Long-term - systemic effects, inhalation 2.6 mg/m³ PNEC (Water) PNEC Qual (freshwater) 0.017 mg/l PNEC qual (freshwater) 0.017 mg/l PNEC qual (intermittent, freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.17 mg/l PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC (Soli) PNEC soli 0.047 mg/kg food PNEC (STP)	2-ethylhexyl nitrate (27247-96-7)		
PNEC soil 93.5 µg/kg dw	PNEC sediment (marine water)	47 μg/kg dw	
PNEC (STP) PNEC sewage treatment plant 10 mg/l 2-ethylhexan-1-ol (104-76-7) DNEL/DMEL (Workers) Acute - local effects, inhalation 53.2 mg/m² Long-term - systemic effects, dermal 23 mg/kg bodyweight/day Long-term - systemic effects, inhalation 53.2 mg/m³ DNEL/DMEL (General population) Acute - local effects, inhalation 26.6 mg/m² Long-term - systemic effects, inhalation 26.6 mg/m³ DNEL/DMEL (General population) Acute - local effects, inhalation 26.6 mg/m² Long-term - systemic effects, oral 1.1 mg/kg bodyweight/day Long-term - systemic effects, inhalation 2.3 mg/m² Long-term - systemic effects, inhalation 2.3 mg/m² Long-term - systemic effects, inhalation 2.6 mg/m² PNEC (Water) PNEC (Water) PNEC Qua (freshwater) 0.017 mg/l PNEC aqua (freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.07 mg/l PNEC aqua (intermittent, freshwater) 0.7 mg/l PNEC sediment) PNEC Sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC Coral) PNEC coral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC (Soil)		
PNEC sewage treatment plant 10 mg/l 2-ethylhexan-1-ol (104-76-7) DNEL/DMEL (Workers) Acute - local effects, inhalation 53.2 mg/m³ Long-term - systemic effects, cernal 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, inhalation 26.6 mg/m³ Long-term - systemic effects, oral 1.1 mg/kg bodyweight/day Long-term - systemic effects, oral 2.3 mg/m³ Long-term - systemic effects, inhalation 2.3 mg/m³ Long-term - systemic effects, inhalation 2.3 mg/m³ PNEC (Water) PNEC (Water) PNEC (Water) PNEC qaua (freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.077 mg/l PNEC aqua (intermittent, freshwater) 0.77 mg/l PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC coral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC soil	93.5 μg/kg dw	
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 - local effects, inhalation 53.2 mg/m³ DNEL/DMEL (General population) Acute - local effects, inhalation 26.6 mg/m³ Long-term - systemic 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, inhalation 2.3 mg/m³ Long-term - local effects, inhalation 26.6 mg/m³ PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.17 mg/l PNEC aqua (intermittent, freshwater) 0.17 mg/l PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (oral) PNEC (oral) PNEC (STP)	PNEC (STP)		
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, dermal 11.4 mg/kg bodyweight/day Long-term - systemic effects, inhalation 26.6 mg/m³ PNEC (Water) 9NEC (Water) PNEC aqua (freshwater) 0.017 mg/l PNEC aqua (marine water) 0.0017 mg/l PNEC aqua (intermittent, freshwater) 0.17 mg/l PNEC (Sediment) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC soil 0.047 mg/kg dwt PNEC (Soil) 0.047 mg/kg dwt PNEC (Oral) 55 mg/kg food PNEC (STP)	PNEC sewage treatment plant	10 mg/l	
Acute - local effects, inhalation 53.2 mg/m³ Long-term - systemic effects, dermal 23 mg/kg bodyweight/day 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, inhalation 2.3 mg/m³ Long-term - systemic effects, dermal 1.4 mg/kg bodyweight/day Long-term - systemic effects, dermal 1.4 mg/kg bodyweight/day Long-term - local effects, inhalation 26.6 mg/m³ PNEC (Water) PNEC quau (freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.77 mg/l PNEC sediment) PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (oral) PNEC (oral) PNEC (STP)	2-ethylhexan-1-ol (104-76-7)		
Long-term - systemic effects, dermal Long-term - systemic effects, inhalation Long-term - local effects, inhalation DNEL/DMEL (General population) Acute - local effects, inhalation 26.6 mg/m² Long-term - systemic effects, inhalation 26.6 mg/m² Long-term - systemic effects, inhalation 26.6 mg/m² PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.017 mg/l PNEC aqua (intermittent, freshwater) 0.17 mg/l PNEC sediment) PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (marine water) 0.0284 mg/kg dwt PNEC soil PNEC soil PNEC (Oral) PNEC (oral) PNEC (SED)	DNEL/DMEL (Workers)		
Long-term - systemic 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, 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 PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (freshwater) 0.0284 mg/kg dwt PNEC sediment (marine water) 0.047 mg/kg dwt PNEC soil 0.047 mg/kg dwt PNEC soil 55 mg/kg food PNEC (Oral) PNEC (STP)	Acute - local effects, inhalation	53.2 mg/m³	
Long-term - local effects, inhalation DNEL/DMEL (General population) Acute - local effects, inhalation Long-term - systemic effects, oral Long-term - systemic effects, inhalation Long-term - systemic effects, inhalation Long-term - systemic effects, dermal Long-term - systemic effects, dermal Long-term - local effects, inhalation 26.6 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) 0.0284 mg/kg dwt PNEC sediment (marine water) PNEC soil PNEC soil PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	Long-term - systemic effects, dermal	23 mg/kg bodyweight/day	
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, inhalation 2.3 mg/m³ 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 PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (marine water) 0.0284 mg/kg dwt PNEC sediment (marine water) 0.047 mg/kg dwt PNEC soil 0.047 mg/kg dwt PNEC (Soil) PNEC soil 55 mg/kg food PNEC (STP)	Long-term - systemic effects, inhalation	12.8 mg/m³	
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 PNEC qua (intermittent, freshwater) 0.17 mg/l PNEC sediment (freshwater) 0.284 mg/kg dwt PNEC sediment (marine water) 0.0284 mg/kg dwt PNEC sediment (marine water) 0.047 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (Oral) PNEC (STP)	Long-term - local effects, inhalation	53.2 mg/m³	
Long-term - systemic effects, inhalation Long-term - systemic effects, inhalation Long-term - systemic effects, dermal 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) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) PNEC sediment) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) 0.284 mg/kg dwt PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (Oral) PNEC (STP)	DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation Long-term - systemic effects, dermal Long-term - local effects, inhalation PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) D.284 mg/kg dwt PNEC sediment (marine water) PNEC sediment (marine water) D.284 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (STP)	Acute - local effects, inhalation	26.6 mg/m³	
Long-term - systemic effects, dermal Long-term - local effects, inhalation 26.6 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (STP)	Long-term - systemic effects,oral	1.1 mg/kg bodyweight/day	
Long-term - local effects, inhalation PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (sediment) PNEC (sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	Long-term - systemic effects, inhalation	2.3 mg/m³	
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil)	Long-term - systemic effects, dermal	11.4 mg/kg bodyweight/day	
PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC (sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	Long-term - local effects, inhalation	26.6 mg/m³	
PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (Oral) PNEC (Oral) PNEC (STP)	PNEC (Water)		
PNEC aqua (intermittent, freshwater) 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 aqua (freshwater)	0.017 mg/l	
PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC soil PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC aqua (marine water)	0.0017 mg/l	
PNEC sediment (freshwater) 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 aqua (intermittent, freshwater)	0.17 mg/l	
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 (Sediment)		
PNEC (Soil) PNEC soil 0.047 mg/kg dwt PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC sediment (freshwater)	0.284 mg/kg dwt	
PNEC soil 0.047 mg/kg dwt PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC sediment (marine water)	0.0284 mg/kg dwt	
PNEC (Oral) PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC (Soil)		
PNEC oral (secondary poisoning) 55 mg/kg food PNEC (STP)	PNEC soil	0.047 mg/kg dwt	
PNEC (STP)	PNEC (Oral)		
	PNEC oral (secondary poisoning)	55 mg/kg food	
PNEC sewage treatment plant 10 mg/l	PNEC (STP)		
	PNEC sewage treatment plant	10 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.

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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

Particle characteristics

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 : Not available Melting point Freezing point : Not available Boiling point : Not available Flammability : Non flammable. **Explosive limits** : Not available Lower explosion limit : Not available : Not available Upper explosion limit : > 65 °C Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic Solubility Insoluble. Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50°C Not available Density Not available Relative density 0.832 Relative vapour density at 20°C Not available

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Not applicable

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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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

Germ cell mutagenicity

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

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-ethylhexyl nitrate (27247-96-7)		
LD50 oral rat	> 9640 mg/kg	
LD50 dermal rabbit	> 4820 mg/kg	
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)	
Skin corrosion/irritation :	Not classified	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	

: Not classified

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Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified

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

STOT-repeated exposure : Not classified

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NOAEL (dermal, rat/rabbit, 90 days)
500 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)

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)

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

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 : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

Not rapidly degradable

140t rapidly degradable	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-ethylhexyl nitrate (27247-96-7)			
LC50 - Fish [1]	2 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [1]	0.83 mg/l Test organisms (species): Daphnia magna		

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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)

12.2. Persistence and degradability

DIESEL INJECTOR CLEANER	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

DIESEL 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
Product/Packaging disposal recommendations

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

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ADR	IMDG	IATA	ADN	RID
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)

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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	
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	

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Abbreviations and acronyms:	
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 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, 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.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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 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.