

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 28.08.2023 Revision date: 08.05.2023 Version: 4.02

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

1.1. Product identifier

Product form : Mixture

Product name : Pre-Emission Test Treatment for Petrol Engines

Product code : W31163 Product group : Trade product

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 : Petrol additive. : Fuel additives Function or use category

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

ITW ADDITIVES INTL B.V. Industriepark-West 46 9100 Sint-Niklaas **BFI GIUM**

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Distributor

ITW Automotive Aftermarket Saxon House, 2-4 Victoria Street

SI 4 1FN Windsor UNITED KINGDOM T +44 (0)24 7647 2634 http://www.wynns.uk.com

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226 Acute toxicity (inhalation:vapour) Category 4 H332 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Germ cell mutagenicity, Category 2 H341 Specific target organ toxicity - Single exposure, Category 3, H335

Respiratory tract irritation

Specific target organ toxicity - Repeated exposure, Category 2 H373 Aspiration hazard, Category 1 H304

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

: Danger

GHS07

GHS08

Signal word (CLP)

Contains : C8-C26 branched and linear hydrocarbons – Distillates; 2-ethylhexan-1-ol; 2-butoxyethanol;

reaction mass of ethylbenzene and xylene; Di-tert-butyl peroxide

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects.

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.

P405 - Store locked up.

P210 - Keep away from hot surfaces, open flames, sparks, heat. - No smoking.

P260 - Do not breathe vapours.

P280 - Wear face shield, protective gloves, protective clothing.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do NOT induce vomiting.

P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

Component	
2-ethylhexan-1-ol (104-76-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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]
C8-C26 branched and linear hydrocarbons – Distillates	CAS-No.: 848301-67-7 EC-No.: 481-740-5 REACH-no: 01-0000020119- 75	25 – 50	Asp. Tox. 1, H304 EUH066

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-ethylhexan-1-ol substance with a Community workplace exposure limit	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289- 20	10 – 25	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-butoxyethanol substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-	10 – 25	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319
reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01-2119488216- 32	10 – 25	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
polyetheramine	CAS-No.: 224622-34-8	5 – 10	Skin Irrit. 2, H315 Aquatic Chronic 3, H412
Di-tert-butyl peroxide	CAS-No.: 110-05-4 EC-No.: 203-733-6 EC Index-No.: 617-001-00-2 REACH-no: 01-2119513335-	2,5 – 5	Flam. Liq. 2, H225 Org. Perox. E, H242 Muta. 2, H341 Aquatic Chronic 3, H412
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EC-No.: 919-164-8 REACH-no: 01-2119473977- 17	1 – 2,5	STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 EUH066

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01-2119488216- 32	(10 ≤ C < 100) STOT RE 2, H373

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 :	Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.
First-aid measures after inhalation :	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact :	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after indestion

: If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects : Suspected of causing genetic defects.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking. Harmful in contact with skin.

Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Abdominal pain. Headache. Risk of aspiration pneumonia. May be fatal if swallowed and

enters airways.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. AFFF foam. ABC-powder. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour. Take precautionary measures against static discharges. The

vapours are denser than air and may travel along the ground. Distance ignition possible.

Explosion hazard : No direct explosion hazard.

5.3. Advice for firefighters

Firefighting instructions : Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous. Use special care to avoid static electric charges. No open

flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing.

Emergency procedures : Mark the danger area. Ventilate spillage area. Prevent flow to low areas. In confined space

use self-contained breathing apparatus. Take off contaminated clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Contain leaking substance, pump over in suitable containers.

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Meet the legal requirements. Repeated exposure may cause skin dryness or cracking.

Provide good ventilation in process area to prevent formation of vapour. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of water/.... Take off

immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take precautionary measures against static discharge. Does not require any specific or

particular technical measures.

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Protect from sunlight. Store in a well-ventilated place. Meet the legal $\,$

requirements. Keep container tightly closed.

Storage temperature : < 45 °C

Storage area : Meet the legal requirements. Protect from heat and direct sunlight. Fireproof storeroom.

Ventilation along the floor.

Special rules on packaging : Keep only in original container. Labelling according to.

7.3. Specific end use(s)

Read label before use. Observe the label precautions. See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-ethylhexan-1-ol (104-76-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5,4 mg/m³	
IOEL TWA [ppm]	1 ppm	
Germany - Occupational Exposure Limits (TRGS 90	0)	
AGW (OEL TWA) [1]	110 mg/m³	
AGW (OEL TWA) [2]	20 ppm	
2-butoxyethanol (111-76-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Butoxyethanol	
IOEL TWA	98 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	246 mg/m³	
IOEL STEL [ppm]	50 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Belgium - Occupational Exposure Limits		
Local name	2-Butoxyéthanol # 2-Butoxy-ethanol	
OEL TWA	98 mg/m³	
OEL TWA [ppm]	20 ppm	

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2-butoxyethanol (111-76-2)			
OEL STEL	246 mg/m³		
OEL STEL [ppm]	50 ppm		
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002		
France - Occupational Exposure Limits			
VME (OEL TWA)	49 mg/m³		
VME (OEL TWA) [ppm]	10 ppm		
VLE (OEL C/STEL)	246 mg/m³		
VLE (OEL C/STEL) [ppm]	50 ppm		
Hungary - Occupational Exposure Limits			
AK (OEL TWA)	98 mg/m³		
CK (OEL STEL)	246 mg/m³		
Netherlands - Occupational Exposure Limits	Netherlands - Occupational Exposure Limits		
TGG-8u (OEL TWA)	100 mg/m³		
TGG-8u (OEL TWA) [ppm]	20 ppm		
TGG-15min (OEL STEL)	246 mg/m³		
TGG-15min (OEL STEL) [ppm]	50 ppm		
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)			
Belgium - Occupational Exposure Limits			
OEL TWA	533 mg/m³		
OEL TWA [ppm]	100 ppm		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA [ppm]	100 ppm		

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

C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)		
PNEC (Sediment)		
PNEC sediment (freshwater)	2,06 mg/kg dwt	
PNEC (Soil)		
PNEC soil	NEC soil 1,68 mg/kg dwt	
PNEC (STP)		
NEC 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, dermal	23 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	12,8 mg/m³	

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Long-term - local effects, inhalation	2-ethylhexan-1-ol (104-76-7)		
Acute - local effects, inhalation 26.6 mg/m² 1.1 mg/kg bodyweight/day 1.1 mg/kg bodyweight/day 1.1 mg/kg bodyweight/day 1.2 mg/kg bodyweight/day 1.2 mg/kg bodyweight/day 1.3 mg/kg bodyweight/day 1.4 mg/kg bodyweight/day	Long-term - local effects, inhalation	53,2 mg/m³	
Long-term - systemic effects, cinal action Long-term - systemic effects, inhalation Long-term - systemic effects, inhalation 2,3 mg/m² Long-term - local effects, inhalation 2,5 mg/m² PNEC Quau (freshwater) PNEC aqua (freshwater) PNEC aqua (freshwater) PNEC aqua (intermittent, freshwater) PNEC sediment) PNEC sediment (freshwater) PNEC sewage freatment plant 10 mg/l 2-butoxyethanol (111-76-2) DNELIDMEL (Workers) Acute - systemic effects, dermal 15 mg/kg bodyweight/day Long-term - systemic effects, inhalation 246 mg/m² DNELIDMEL (General population) Acute - systemic effects, oral 26.7 mg/kg bodyweight (avg. bodyweight (avg. bodyweight (avg. bodyweight (avg. bodyweight) Acute - systemic effects, oral 26.7 mg/kg bodyweight (avg. bodyweight (avg. bodyweight) Cong-term - systemic effects, inhalation 98 mg/m² PNEC aqua (freshwater) PNEC aqua (DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation 2,3 mg/m³ Long-term - systemic effects, dermal 11.4 mg/kg bodyweight/day 26.6 mg/m³ PNEC (Water) PNEC (Water) PNEC aqua (Interhivater) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment (Interhivater) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment (Interhivater) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment) PNEC sediment) PNEC sediment (Interhivater) PNEC sediment) 10 mg/l 2-butoxyethanol (111-76-2) DNEL/DMEL (Workers) Acute - systemic effects, inhalation 1091 mg/m² Long-term - systemic effects, inhalation 246 mg/m² DNEL/DMEL (General population) Acute - systemic effects, inhalation 246 mg/m² Acute - systemic effects, inhalation PNEC systemic effects, inhalation 147 mg/m² PNEC aqua (Interhittent, Interhivater) 9,1 mg/l PNEC (Sediment)	Acute - local effects, inhalation	26,6 mg/m³	
Long-term - systemic effects, dermal 11.4 mg/kg bodyweight/day 26,6 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (marine water) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Sediment) PNEC (Sediment) PNEC (Sediment) PNEC (Sediment) PNEC sediment (marine water) PNEC (Sediment) 10 mg/li 2-butoxyethanol (111-76-2) PNEL DMEL (Workers) Acute - systemic effects, inhalation 1091 mg/m² Long-term - systemic effects, inhalation PNEC (Sediment)	Long-term - systemic effects,oral	1,1 mg/kg bodyweight/day	
Long-term - local effects, inhalation 26,6 mg/m² PNEC (Water) PNEC aqua (frashwater) 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 sediment (marine water) 0,0284 mg/kg dwt PNEC sediment (marine water) 0,0284 mg/kg dwt PNEC sediment (marine water) 1,0284 mg/kg dwt PNEC sediment (marine water) 1,047 mg/kg dwt PNEC sediment (marine water) 1,047 mg/kg dwt PNEC sediment (marine water) 1,058 mg/kg dwt PNEC sediment (marine water) 1,058 mg/kg dwt PNEC sevage treatment plant 1,058 mg/kg dwt PNEC sevage treatment plant 1,058 mg/kg dwt PNEC sevage treatment plant 1,058 mg/kg bodyweight/day Acute - systemic effects, inhalation 1,091 mg/m² Long-term - systemic effects, inhalation 2,55 mg/kg bodyweight/day Long-term - local effects, inhalation 2,46 mg/m² DNEL/DMEL (General population) Acute - systemic effects, semal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m² DNEL/DMEL (General population) 426 mg/m² Acute - systemic effects, semal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m² DNEL/DMEL (General population) 426 mg/m² Long-term - systemic effects, inhalation 55 mg/m² Long-term - systemic effects, inhalation 55 mg/m² Long-term - systemic effects, inhalation 147 mg/m² PNEC (water) 8,8 mg/l PNEC (aqua (freshwater) 8,8 mg/l PNEC aqua (freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (sediment)	Long-term - systemic effects, inhalation	2,3 mg/m³	
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PNEC soil 0,047 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 10 mg/l 2-butoxyethanol (111-76-2) DNEL/DMEL (Workers) Acute - systemic effects, dermal 89 mg/kg bodyweight/day Acute - systemic effects, dermal 125 mg/kg bodyweight/day Long-term - systemic effects, inhalation 98 mg/m² Long-term - local effects, inhalation 246 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 98 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m² Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (marine water) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC sediment (marine water)	0,0284 mg/kg dwt	
PNEC (STP) PNEC sewage treatment plant 2-butoxyethanol (111-76-2) DNEL/DMEL (Workers) Acute - systemic effects, dermal Acute - systemic effects, inhalation Long-term - systemic effects, inhalation Long-term - systemic effects, inhalation 246 mg/m² DNEL/DMEL (General population) Acute - systemic effects, dermal Acute - systemic effects, inhalation PNEL/DMEL (General population) Acute - systemic effects, dermal Acute - systemic effects, inhalation 426 mg/m² Acute - systemic effects, inhalation 59 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, dermal Long-term - systemic effects, dermal 175 mg/kg bodyweight/day Long-term - systemic effects, dermal 175 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC (Soil)		
PNEC sewage treatment plant 10 mg/l 2-butoxyethanol (111-76-2) DNEL/DMEL (Workers) Acute - systemic effects, dermal 89 mg/kg bodyweight/day Acute - systemic effects, inhalation 1091 mg/m³ Long-term - systemic effects, inhalation 98 mg/m³ Long-term - local effects, inhalation 246 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 147 mg/m³ PNEC (Water) PNEC (aqua (freshwater) 8.8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC soil	0,047 mg/kg dwt	
2-butoxyethanol (111-76-2) DNEL/DMEL (Workers) Acute - systemic effects, dermal 89 mg/kg bodyweight/day Acute - systemic effects, inhalation 1091 mg/m³ Long-term - systemic effects, inhalation 98 mg/m³ Long-term - local effects, inhalation 246 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC (STP)		
DNEL/DMEL (Workers) Acute - systemic effects, dermal 89 mg/kg bodyweight/day Acute - systemic effects, inhalation 1091 mg/m³ Long-term - systemic effects, inhalation 98 mg/m³ Long-term - local effects, inhalation 246 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - local effects, inhalation 147 mg/m³ PNEC qua (freshwater) 8,8 mg/l PNEC aqua (marine water) 0,88 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC sewage treatment plant	10 mg/l	
Acute - systemic effects, dermal Acute - systemic effects, inhalation Long-term - systemic effects, dermal Long-term - systemic effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, inhalation Acute - systemic effects, inhalation Acute - systemic effects, dermal Acute - systemic effects, dermal Acute - systemic effects, inhalation Acute - systemic effects, inhalation Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, oral Cong-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal To mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8.8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	2-butoxyethanol (111-76-2)		
Acute - systemic effects, inhalation 1091 mg/m³ Long-term - systemic effects, dermal 125 mg/kg bodyweight/day Long-term - systemic effects, inhalation 98 mg/m³ Long-term - local effects, inhalation 246 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26.7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal Long-term - systemic effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, dermal Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (fireshwater) 9,1 mg/l PNEC (Sediment)	Acute - systemic effects, dermal	89 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation 246 mg/m³ Long-term - local effects, inhalation 246 mg/m³ DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Acute - systemic effects, inhalation	1091 mg/m³	
Long-term - local effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, dermal Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - local effects, dermal T5 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - systemic effects, dermal	125 mg/kg bodyweight/day	
DNEL/DMEL (General population) Acute - systemic effects, dermal 89 mg/kg bodyweight Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects, oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - systemic effects, inhalation	98 mg/m³	
Acute - systemic effects, dermal Acute - systemic effects, inhalation 426 mg/m³ Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - local effects, inhalation	246 mg/m³	
Acute - systemic effects, inhalation Acute - systemic effects, oral 26,7 mg/kg bodyweight Long-term - systemic effects,oral 6,3 mg/kg bodyweight/day Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) 9,8 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	DNEL/DMEL (General population)		
Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal Long-term - systemic effects, dermal 75 mg/kg bodyweight/day Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (marine water) 9,1 mg/l PNEC (Sediment)	Acute - systemic effects, dermal	89 mg/kg bodyweight	
Long-term - systemic effects, oral Long-term - systemic effects, inhalation 59 mg/m³ Long-term - systemic effects, dermal Long-term - local effects, dermal 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) 6,3 mg/kg bodyweight/day 147 mg/m³ 147 mg/m³ 8,8 mg/l 9,1 mg/l	Acute - systemic effects, inhalation	426 mg/m³	
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) 59 mg/m³ 75 mg/kg bodyweight/day 147 mg/m³ 8,8 mg/l PNEC aqua (freshwater) 9,8 mg/l PNEC (Sediment)	Acute - systemic effects, oral	26,7 mg/kg bodyweight	
Long-term - systemic effects, dermal Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - systemic effects,oral	6,3 mg/kg bodyweight/day	
Long-term - local effects, inhalation 147 mg/m³ PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (marine water) 0,88 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - systemic effects, inhalation	59 mg/m³	
PNEC (Water) PNEC aqua (freshwater) 8,8 mg/l PNEC aqua (marine water) 0,88 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - systemic effects, dermal	75 mg/kg bodyweight/day	
PNEC aqua (freshwater) PNEC aqua (marine water) 0,88 mg/l PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	Long-term - local effects, inhalation	147 mg/m³	
PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) 0,88 mg/l 9,1 mg/l PNEC (Sediment)	PNEC (Water)		
PNEC aqua (intermittent, freshwater) 9,1 mg/l PNEC (Sediment)	PNEC aqua (freshwater)	8,8 mg/l	
PNEC (Sediment)	PNEC aqua (marine water)	0,88 mg/l	
	PNEC aqua (intermittent, freshwater)	9,1 mg/l	
PNEC sediment (freshwater) 34,6 mg/kg dwt	PNEC (Sediment)		
	PNEC sediment (freshwater)	34,6 mg/kg dwt	

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2-butoxyethanol (111-76-2)		
PNEC sediment (marine water)	3,46 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2,33 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	463 mg/l	
reaction mass of ethylbenzene and xylene		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	442 mg/m³	
Acute - local effects, inhalation	442 mg/m³	
Long-term - systemic effects, dermal	212 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	221 mg/m³	
Long-term - local effects, inhalation	221 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	260 mg/m³	
Acute - local effects, inhalation	260 mg/m³	
Long-term - systemic effects,oral	12,5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	65,3 mg/m³	
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day	
Long-term - local effects, inhalation	65,3 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0,327 mg/l	
PNEC aqua (marine water)	0,327 mg/l	
PNEC aqua (intermittent, freshwater)	0,327 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	12,46 mg/kg dwt	
PNEC sediment (marine water)	12,46 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2,31 mg/kg dwt	
Di-tert-butyl peroxide (110-05-4)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	20 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0,144 mg/l	
PNEC aqua (marine water)	0,014 mg/l	
PNEC aqua (intermittent, freshwater)	0,36 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	15 mg/kg dwt	

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Di-tert-butyl peroxide (110-05-4)	
PNEC sediment (marine water)	1,5 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,94 mg/kg dwt
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:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide good ventilation in process area to prevent formation of vapour. Does not require any specific or particular technical measures.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Hand protection:

Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Breakthrough time: >30'. Thickness of the glove material >0,1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Appearance : clear. : characteristic. Odour Odour threshold : Not available Melting point Not available Not available Freezing point Boiling point : Not available Flammability : Not available

Oxidising properties : Non oxidizing material according to EC criteria.

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Lower explosion limit : Not available Upper explosion limit : Not available Flash point : 39 °C (ASTM D93) Auto-ignition temperature : Not available Decomposition temperature Not available : Not available рΗ Viscosity, kinematic 2,5 mm²/s @40°C Solubility Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available

Density : 820 kg/m³ @ 20°C (ASTM D4052)

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

Additional information : The physical and chemical data in this section are typical values for this product and are not

intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.

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) : Harmful if inhaled.

Pre-Emission Test Treatment for Petrol Engines

ATE CLP (vapours) 19,075 mg/l/4h

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C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)		
LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley	
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley	
2-ethylhexan-1-ol (104-76-7)		
LD50 oral rat	2047 mg/kg	
LD50 dermal rabbit	> 3000 mg/kg	
LC50 Inhalation - Rat	1,1 mg/l/4h	
2-butoxyethanol (111-76-2)		
LD50 oral rat	1200 mg/kg bodyweight Rat	
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley	
reaction mass of ethylbenzene and xylene		
LD50 oral rat	3523 mg/kg bodyweight F344/N	
LD50 dermal rabbit	12126 mg/kg bodyweight New Zealand White	
Di-tert-butyl peroxide (110-05-4)		
LD50 oral rat	> 2000 mg/kg bodyweight Wistar	
LD50 dermal rat	> 2000 mg/kg bodyweight Wistar	
LC50 Inhalation - Rat	> 22 mg/l/4h Wistar	
hydrocarbons, C10-C13, n-alkanes, isoalkane	es, cyclics, aromatics (2-25%)	
LD50 oral rat	> 15000 mg/kg	
LD50 dermal rabbit	> 3400 mg/kg	
LC50 Inhalation - Rat	> 13,1 mg/l/4h	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Suspected of causing genetic defects.	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
STOT-single exposure :	May cause respiratory irritation.	
2-ethylhexan-1-ol (104-76-7)		
STOT-single exposure	May cause respiratory irritation.	
reaction mass of ethylbenzene and xylene		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.	
reaction mass of ethylbenzene and xylene		
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure (oral, if inhaled).	
hydrocarbons, C10-C13, n-alkanes, isoalkane	es, cyclics, aromatics (2-25%)	
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure.	
Aspiration hazard :	May be fatal if swallowed and enters airways.	

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Pre-Emission Test Treatment for Petrol Engines		
Viscosity, kinematic	2,5 mm²/s @40°C	
C8-C26 branched and linear hydrocarbons – [Distillates (848301-67-7)	
Viscosity, kinematic	2 – 4,5 mm²/s	
2-butoxyethanol (111-76-2)		
Viscosity, kinematic < 3,7 mm²/s		
reaction mass of ethylbenzene and xylene		
Viscosity, kinematic	< 0,74 mm²/s	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	
polyetheramine (224622-34-8)		
Aliphatic, alicyclic or aromatic hydrocarbon Yes		
Di-tert-butyl peroxide (110-05-4)		
Viscosity, kinematic	< 1,1 mm²/s	
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		
Viscosity, kinematic	< 2,2 mm²/s	
Aliphatic, alicyclic or aromatic hydrocarbon	Yes	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This product contains hazardous components for the aquatic environment.

Ecology - water : 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 : Not classified

(chronic)

(cnronic)		
C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)		
LC50 - Fish [1]	> 1000 mg/l @96h Pimephales promelas	
EC50 - Crustacea [1]	> 1000 mg/l @48h Daphnia magna	
EC50 - Other aquatic organisms [1]	> 1000 mg/l @72h Pseudokirchneriella subcapitata	
NOEC (acute)	> 1000 mg/l @48h Daphnia magna	
2-ethylhexan-1-ol (104-76-7)		
LC50 - Fish [1]	96h 28,2 mg/l pimephales promelas	
EC50 - Crustacea [1]	48h 39 mg/l daphnia magna	
EC50 - Other aquatic organisms [1]	72h 11,5 mg/l algae (desmodesmus subspicatus)	
2-butoxyethanol (111-76-2)		
LC50 - Fish [1]	96h 1464 mg/l Oncorhynchus mykiss	
EC50 - Crustacea [1]	48h 1800 mg/l Daphnia magna	
EC50 - Other aquatic organisms [1]	72h 911 mg/l Pseudokirchneriella subcapitata	

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2-butoxyethanol (111-76-2)		
NOEC (acute) 72h 88 mg/l Pseudokirchneriella subcapitata		
reaction mass of ethylbenzene and xylene		
LC50 - Fish [1]	> 2,6 mg/l @96h	
EC50 - Other aquatic organisms [1]	72h 2,2 mg/l	
Di-tert-butyl peroxide (110-05-4)		
LC50 - Fish [1]	96h 805,089 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 73,1 mg/l @48h Daphnia magna	
EC50 - Other aquatic organisms [1]	≈ 15 mg/l @72h Pseudokirchneriella subcapitata	

12.2. Persistence and degradability

C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)	
Persistence and degradability Readily biodegradable.	
2-ethylhexan-1-ol (104-76-7)	
Persistence and degradability Readily biodegradable.	
2-butoxyethanol (111-76-2)	
Persistence and degradability Readily biodegradable.	

12.3. Bioaccumulative potential

C8-C26 branched and linear hydrocarbons – Distillates (848301-67-7)		
Partition coefficient n-octanol/water (Log Pow) > 6,5 @40°C		
2-ethylhexan-1-ol (104-76-7)		
Bioaccumulative potential No bioaccumulation.		
2-butoxyethanol (111-76-2)		
Bioaccumulative potential Slightly bioaccumulative.		
Di-tert-butyl peroxide (110-05-4)		
Partition coefficient n-octanol/water (Log Pow) 3,2 @22°C		

12.4. Mobility in soil

2-butoxyethanol (111-76-2)	
Ecology - soil	Small adsorption.

12.5. Results of PBT and vPvB assessment

Component	
2-ethylhexan-1-ol (104-76-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Remove to an

authorized waste treatment plant. Avoid release to the environment.

European List of Waste (LoW) code : 18 01 06* - chemicals consisting of or containing dangerous substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shippin	g name			
FLAMMABLE LIQUID, N.O.S. (xylenes, di-tert- butylperoxide)	(xylenes, di-tert- butylperoxide)	(xylenes, di-tert- butylperoxide)	(xylenes, di-tert- butylperoxide)	(xylenes, di-tert- butylperoxide)
Transport document descr	iption			
UN 1993 FLAMMABLE LIQUID, N.O.S. (xylenes, di-tert-butylperoxide), 3, III, (D/E)	UN 1993 (xylenes, di-tert- butylperoxide), 3	UN 1993 (xylenes, di-tert- butylperoxide), 3	UN 1993 (xylenes, di-tert- butylperoxide), 3	UN 1993 (xylenes, di-tert- butylperoxide), 3
14.3. Transport hazard	class(es)			
3	3	3	3	3
3	Not applicable	Not applicable	Not applicable	3
14.4. Packing group				
III	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	n available		•	

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 274, 601, 640E

Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30

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Orange plates

30 1993

Tunnel restriction code (ADR)

EAC code : •3YE

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

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)

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15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class II-1 Store unit : 5 liter

Classification remarks : R10 <H226;H304;H315;H319;H332;H335;H341;H373>; Emergency management

guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

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Full text of H- and EUH-statements:		
H242	Heating may cause a fire.	
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.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	
Muta. 2	Germ cell mutagenicity, Category 2	
Org. Perox. E	Organic Peroxides, Type E	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
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	

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.