Petrol Emission Reducer

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 24.08.2023 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 : Petrol Emission Reducer
Product code : W29393
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.
Function or use category : Fuel additives

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
BELGIUM
T +32 3 766 60 20 - F +32 3 778 16 56
msds@wynns.eu - www.wynns.com

Distributor
Wynn's Automotive France S.A.S.
2 Av. Léonard de Vinci Z.A. Europarc
33600 PESSAC Cedex
FRANCE
T +33 5 57 26 29 00

Distributor
Krafft S.L.U.
Carretera de Urnieta, s/n
20140 Andoain - Guipúzcoa
ESPAÑA
T +34 943 410 400 - F +34 943 410 440

Distributor
ITW Automotive Aftermarket
Saxon House, 2-4 Victoria Street
SL4 1EN 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, Respiratory tract irritation	H335
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

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07 GHS08

Signal word (CLP) : Danger

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

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: 01-2119475108-36	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: 01-2119513335-48	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.

First-aid measures after ingestion : 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".

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 900)	
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

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	
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	1,68 mg/kg dwt
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/m³
Long-term - systemic effects, dermal	23 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12,8 mg/m³

2-ethylhexan-1-ol (104-76-7)	
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
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 (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, 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 (marine water)	0,88 mg/l
PNEC aqua (intermittent, freshwater)	9,1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	34,6 mg/kg dwt

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

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.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Oxidising properties	:	Non oxidizing material according to EC criteria.

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
pH	:	Not available
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.

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

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, isoalkanes, 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, isoalkanes, 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.

Petrol Emission Reducer	
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 (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

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

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

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

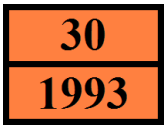
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping 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 description				
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
	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
III	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
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 available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 274, 601, 640E
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30

Orange plates : 

Tunnel restriction code (ADR) : D/E
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)

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 – Vruchtbaarheid : None of the components are listed
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.

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.