HYDRAUNYCOIL FH 6

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 14/03/2018 Revision date: 26/04/2023 Supersedes version of: 04/11/2022 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Trade name : HYDRAUNYCOIL FH 6
Product code : FH6-3

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

1.2.1. Relevant identified uses

Main use category : Industrial use,Professional use
Use of the substance/mixture : Mineral oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NYCO
66 Avenue des Champs Elysées - BP414
75366 Paris Cedex 08
France
T +33 (0)1 45 61 50 00
info@nyco-group.com - www.nyco-group.com

Supplied by:
Sil-Mid Limited
Roman Park, Roman Way
Coleshill, West Midlands
B46 1HG. UK
T: 01675 432850
E: info@silmid.com

Emergency Telephone No. +44 (0)1675 432850
(Monday to Friday, 08:00 – 17:30 – GMT)

1.4. Emergency telephone number

Emergency number : +33 (0)1 45 42 59 59
INRS/ORFILA (France) : 33 1 45 42 59 59

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Asp. Tox. 1 H304
Aquatic Chronic 3 H412
Full text of hazard classes, 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) :

GHS08

Signal word (CLP) : Danger
Contains : Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics; Distillates (petroleum), hydrotreated light naphthenic

Hazard statements (CLP)	:	H304 - May be fatal if swallowed and enters airways. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P273 - Avoid release to the environment. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 - Do NOT induce vomiting.

2.3. Other hazards

Contains no PBT/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, C12-C18, isoalkanes, cyclics, 2-30% aromatics	EC-No.: 954-225-2 REACH-no: 01-2120920648-49	50 – 100	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375-34	10 – 20	Asp. Tox. 1, H304
Hydrocarbons, C13-16	EC-No.: 934-954-2 REACH-no: 01-2119826592-36	1 - 5	Asp. Tox. 1, H304
barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	EC-No.: 939-718-2 EC Index-No.: 056-002-00-7 REACH-no: 01-2119980986-14	0 - 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315
2,6-di-tert-butyl-p-cresol substance with national workplace exposure limit(s) (GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4 REACH-no: 01-2119555270-46	0 - 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	EC-No.: 700-990-0 REACH-no: 01-2119519251-50	0 – 1	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Methyl methacrylate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 REACH-no: 01-2119452498-28	0 - 0,1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cyclohexanone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-94-1 EC-No.: 203-631-1 REACH-no: 01-2119453616-35	0 – 0,01	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=1890 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318
methanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	0 - 0,01	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) STOT SE 1, H370
reaction mass of ethylbenzene and xylene substance with national workplace exposure limit(s) (GB)	EC-No.: 905-588-0 REACH-no: 01-2119539452-40	0 - 0,01	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304

Specific concentration limits:

Name	Product identifier	Specific concentration limits
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	(3 ≤C < 10) STOT SE 2, H371 (10 ≤C < 100) STOT SE 1, H370

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 (“Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method” Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 (show the label where possible).

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical advice (show the label where possible).

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation 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. Seek medical advice (show the label where possible).

First-aid measures after ingestion : IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Seek medical advice (show the label where possible).

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

Symptoms/effects after inhalation : At high concentrations, the vapours can be irritating to the respiratory system.

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

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Possible irritation of mucous membranes and digestive tract, nausea, vomiting.

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. Foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : On burning: release of harmful/irritant gases/vapours. Carbon oxides (CO, CO2).

5.3. Advice for firefighters

Precautionary measures fire : Protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.1.1. For non-emergency personnel

Protective equipment : See Headings 7 and 8.

Emergency procedures : For a large spillage, contain the spillage by bunding.

6.1.2. For emergency responders

Protective equipment : See Headings 7 and 8.

Emergency procedures : For a large spillage, contain the spillage by bunding.

6.2. Environmental precautions

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Stable at ambient temperature and under normal conditions of use.

Precautions for safe handling : Wear suitable protective clothing. Personal protective equipment. When using do not eat, drink or smoke. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Avoid spilling the product, as this might cause falls. Provide local exhaust or general room ventilation.

Hygiene measures : When using do not eat or drink. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area.

Special rules on packaging : Store in original container. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	0,5 mg/m³
United Kingdom - Occupational Exposure Limits	
Local name	Barium
WEL TWA (OEL TWA) [1]	0,5 mg/m³ compounds, soluble (as Ba)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

2,6-di-tert-butyl-p-cresol (128-37-0)	
United Kingdom - Occupational Exposure Limits	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA) [1]	10 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Methyl methacrylate (80-62-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA [ppm]	50 ppm
IOEL STEL [ppm]	100 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Methyl methacrylate
WEL TWA (OEL TWA) [1]	208 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m³
WEL STEL (OEL STEL) [ppm]	100 ppm

Methyl methacrylate (80-62-6)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Cyclohexanone (108-94-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	40,8 mg/m³
IOEL TWA [ppm]	10 ppm
IOEL STEL	81,6 mg/m³
IOEL STEL [ppm]	20 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Cyclohexanone
WEL TWA (OEL TWA) [1]	41 mg/m³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	82 mg/m³
WEL STEL (OEL STEL) [ppm]	20 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Cyclohexanone
BMGV	2 mmol/mol Creatinine Parameter: cyclohexanol - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

methanol (67-56-1)	
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA (OEL TWA) [1]	266 mg/m³
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	333 mg/m³
WEL STEL (OEL STEL) [ppm]	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

reaction mass of ethylbenzene and xylene	
United Kingdom - Occupational Exposure Limits	
Local name	Xylene
WEL TWA (OEL TWA) [1]	220 mg/m³ o-,m-,p- or mixed isomers
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers

reaction mass of ethylbenzene and xylene	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Xylene, o-, m-, p- or mixed isomers
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Oil mist	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³ 8h
IOEL STEL	10 mg/m³ 15min

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

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	5,58 mg/m³

Hydrocarbons, C13-16	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	5002,67 mg/m³
Long-term - systemic effects, dermal	2,91 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	16,4 mg/m³ Developmental toxicity
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	3001,6 mg/m³
Long-term - systemic effects,oral	1,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4,85 mg/m³ Developmental toxicity
PNEC (Oral)	
PNEC oral (secondary poisoning)	17 g/kg food

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,183 mg/kg bw/day
Long-term - systemic effects, inhalation	1,29 mg/m³

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
PNEC (Water)	
PNEC aqua (freshwater)	0,19 µg/L
PNEC aqua (marine water)	0,018 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	3,13 mg/kg dwt
PNEC sediment (marine water)	313 µg/kg dw
PNEC (Soil)	
PNEC soil	624 µg/kg dw
PNEC (Oral)	
PNEC oral (secondary poisoning)	5,5 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

2,6-di-tert-butyl-p-cresol (128-37-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,76 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,435 mg/m³
Long-term - systemic effects, dermal	0,25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,199 µg/l
PNEC aqua (marine water)	0,0199 µg/l
PNEC aqua (intermittent, freshwater)	1,99 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,45819 mg/kg dwt
PNEC sediment (marine water)	0,04582 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0539 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	16,67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	0,017 mg/l

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10,75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7,58 mg/m³

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	5,375 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,87 mg/m³
Long-term - systemic effects, dermal	5,375 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,000798 mg/l
PNEC aqua (marine water)	0,00008 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,96 mg/kg dwt
PNEC sediment (marine water)	0,09 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,252 mg/kg dwt

Methyl methacrylate (80-62-6)	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	1,5 mg/cm²
Acute - local effects, inhalation	416 mg/m³
Long-term - systemic effects, dermal	13,67 mg/kg bodyweight/day
Long-term - local effects, dermal	1,5 mg/cm²
Long-term - systemic effects, inhalation	349,4 mg/m³
Long-term - local effects, inhalation	208 mg/m³
DNEL/DMEL (General population)	
Acute - local effects, dermal	1,5 mg/cm²
Acute - local effects, inhalation	208 mg/m³
Long-term - systemic effects,oral	8,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	74,3 mg/m³
Long-term - systemic effects, dermal	8,2 mg/kg bodyweight/day
Long-term - local effects, dermal	1,5 mg/cm²
Long-term - local effects, inhalation	104 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,94 mg/l
PNEC aqua (marine water)	0,094 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	10,2 mg/kg dwt
PNEC sediment (marine water)	0,102 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,48 mg/kg dwt

Methyl methacrylate (80-62-6)	
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

Cyclohexanone (108-94-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	4 mg/kg bodyweight/day
Acute - systemic effects, inhalation	80 mg/m³
Acute - local effects, inhalation	80 mg/m³
Long-term - systemic effects, dermal	4 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	40 mg/m³
Long-term - local effects, inhalation	40 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	1 mg/kg bodyweight
Acute - systemic effects, inhalation	20 mg/m³
Acute - systemic effects, oral	1,5 mg/kg bodyweight
Acute - local effects, inhalation	40 mg/m³
Long-term - systemic effects,oral	1,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,0329 mg/l
PNEC aqua (marine water)	0,0329 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,0951 mg/kg dwt
PNEC sediment (marine water)	0,0512 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0143 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

methanol (67-56-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	20 mg/kg bodyweight/day
Acute - systemic effects, inhalation	130 mg/m³
Acute - local effects, inhalation	130 mg/m³
Long-term - systemic effects, dermal	20 mg/m³
Long-term - systemic effects, inhalation	130 mg/m³
Long-term - local effects, inhalation	130 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	4 mg/kg bw/day

methanol (67-56-1)	
Acute - systemic effects, inhalation	26 mg/m³
Acute - systemic effects, oral	4 mg/kg bw/day
Acute - local effects, inhalation	26 mg/m³
Long-term - systemic effects,oral	4 mg/kg bw/day
Long-term - systemic effects, inhalation	26 mg/kg dwt
Long-term - systemic effects, dermal	4 mg/kg bw/day
Long-term - local effects, inhalation	26 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	20,8 mg/l
PNEC aqua (marine water)	2,08 mg/l
PNEC aqua (intermittent, freshwater)	1540 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	77 mg/kg dwt
PNEC sediment (marine water)	7,7 mg/kg dwt
PNEC (Soil)	
PNEC soil	100 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 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

reaction mass of ethylbenzene and xylene	
PNEC sediment (marine water)	12,46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,31 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	6,58 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:
Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection:
No personal breathing protective equipment is normally required

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	red.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	-69 °C
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available

Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	91 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not applicable
Viscosity, kinematic	:	14 mm²/s @40°C
Solubility	:	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	0,871 kg/l @20°C
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Elevated temperature.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

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

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

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
LD50 oral rat	> 4150 mg/kg (Results obtained on a similar product)
LD50 dermal rabbit	> 1700 mg/l (Results obtained on a similar product)

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
LC50 Inhalation - Rat (Dust/Mist)	> 5,28 mg/l/4h (Results obtained on a similar product)

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5,53 mg/l/4h

Hydrocarbons, C13-16	
LD50 oral rat	> 5000 mg/kg bodyweight OECD 401
LD50 dermal rabbit	> 3160 mg/kg OECD 402
LC50 Inhalation - Rat (Vapours)	> 5,26 mg/l/4h OECD 403

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
LD50 dermal rabbit	> 10000 mg/kg
DL50, Inhalation, rat	> 21 mg/l/1h (mist)

2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 2930 mg/kg OECD 401
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Methyl methacrylate (80-62-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	29,8 mg/l/4h

Cyclohexanone (108-94-1)	
LD50 oral rat	1890 mg/kg

methanol (67-56-1)	
LD50 oral rat	> 2528 mg/kg OECD 401
LD50 dermal rabbit	15800 mg/kg
LC50 Inhalation - Rat (Vapours)	128,2 mg/l/4h

reaction mass of ethylbenzene and xylene	
LD50 oral rat	3523 mg/kg bw/day

Skin corrosion/irritation : Not classified
pH: Not applicable

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
pH	Not applicable

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
pH	Not applicable

Serious eye damage/irritation : Not classified
pH: Not applicable

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
pH	Not applicable

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
pH	Not applicable

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Methyl methacrylate (80-62-6)	
STOT-single exposure	May cause respiratory irritation.

methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.

reaction mass of ethylbenzene and xylene	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

reaction mass of ethylbenzene and xylene	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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

HYDRAUNYCOIL FH 6	
Viscosity, kinematic	14 mm²/s @40°C

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
Viscosity, kinematic	3 mm²/s @40°C

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
Viscosity, kinematic	7,6 mm²/s @ 40°C

Hydrocarbons, C13-16	
Viscosity, kinematic	3 – 4 mm²/s @20°C

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
Viscosity, kinematic	30,8 mm²/s @40°C

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

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

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

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
LC50 - Fish [1]	> 1000 mg/l 96h
EC50 - Crustacea [1]	> 1000 mg/l 48h

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
LC50 - Fish [1]	> 100 mg/l 96h
EC50 - Crustacea [1]	> 10000 mg/l 96h
NOEC (acute)	> 100 mg/l 72h:Algae
NOEC chronic crustacea	10 mg/l 21d

Hydrocarbons, C13-16	
LC50 - Fish [1]	> 1028 mg/l 96h:Scophthalmus maximus (OCDE203)
EC50 - Crustacea [1]	> 3193 mg/l 48h:Acartia tonsa (ISO 14669)
EC50 72h - Algae [1]	> 10000 mg/l 72h:Skeletonema costatum (ISO 10253)
NOEC chronic fish	> 1000 mg/l 28d:Oncorhynchus mykiss (QSAR)
NOEC chronic crustacea	> 1000 mg/l 28d:Daphnia magna (QSAR)

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
CL50, Fish	> 0.28 mg/l (96h, (Results obtained on a similar product))
NOEC, daphnia	0.27 mg/l (48h, (Results obtained on a similar product))
EC10, algae	0.16 mg/l (72h, (Results obtained on a similar product))

2,6-di-tert-butyl-p-cresol (128-37-0)	
LC50 - Fish [1]	> 0,57 mg/l 96h:Danio rerio (EC n° 440/2008, annexe, C.1)
EC50 - Crustacea [1]	0,48 mg/l 48h:Daphnia magna (OECD 202)
EC50 72h - Algae [1]	> 0,4 mg/l 72h:Desmodesmus subspicatus (EC n° 440/2008, annexe, C.3)
NOEC chronic fish	0,053 mg/l 42d:Oryzias latipes (OECD 210)
NOEC chronic crustacea	0,023 mg/l 21d:Daphnia magna (OCDE 202)

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
LC50 - Fish [1]	0,8 mg/l 96h
EC50 - Crustacea [1]	< 0,202 ppm 48h:Daphnia magnia

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
NOEC chronic fish	0,093 mg/l 90d
NOEC chronic crustacea	0,0399 mg/l 21d

Methyl methacrylate (80-62-6)	
LC50 - Fish [1]	> 79 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	69 mg/l Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l
NOEC chronic fish	9,4 mg/l 35d:Danio rerio (OECD 210)
NOEC chronic crustacea	37 mg/l 21d:Daphnia magna (OECD 211)
NOEC chronic algae	49 mg/l 72h:Selenastrum capricornutum (OECD 201)

Cyclohexanone (108-94-1)	
ErC50 algae	> 100 mg/l 72h:Desmodesmus subspicatus (OCDE 201)

methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l 96h:Lepomis macrochirus (EPA-660/3-75-009)
EC50 - Crustacea [1]	> 10000 ml/l 48h:Daphnia magna (DIN 38412)
ErC50 algae	22000 mg/l 96h:Pseudokirchneriella (OECD 201)

reaction mass of ethylbenzene and xylene	
LC50 - Fish [1]	2,6 mg/l 96h
EC50 - Crustacea [1]	> 3,4 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 - Crustacea [2]	1 mg/l Daphnia magma
NOEC chronic fish	> 1,3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
NOEC chronic crustacea	0,96 mg/l 7d; Daphnia magma

12.2. Persistence and degradability

2,6-di-tert-butyl-p-cresol (128-37-0)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	4,5 % 28d; OECD301 C

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
Persistence and degradability	Readily biodegradable.

Methyl methacrylate (80-62-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	94 % 14d (OECD 301 C)

methanol (67-56-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	76 % 5d

12.3. Bioaccumulative potential

Hydrocarbons, C12-C18, isoalkanes, cyclics, 2-30% aromatics	
Bioaccumulative potential	Potentially bioaccumulable.

Distillates (petroleum), hydrotreated light naphthenic, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C15 through C30 and produces a finished oil with a viscosity of less than 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-53-6)	
Bioconcentration factor (BCF REACH)	< 500
Partition coefficient n-octanol/water (Log Pow)	2 – 6

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
Partition coefficient n-octanol/water (Log Kow)	6,7 @20°C
Bioaccumulative potential	Potentially bioaccumulable.

2,6-di-tert-butyl-p-cresol (128-37-0)	
Bioconcentration factor (BCF REACH)	> 2000
Partition coefficient n-octanol/water (Log Pow)	5,1

Reaction mass of 4-tert-butylphenyl diphenyl phosphate and bis(4-tert-butylphenyl) phenyl phosphate and triphenyl phosphate	
Partition coefficient n-octanol/water (Log Pow)	4,68 @25°C

Methyl methacrylate (80-62-6)	
Partition coefficient n-octanol/water (Log Kow)	1,38

methanol (67-56-1)	
Partition coefficient n-octanol/water (Log Pow)	-0,77

reaction mass of ethylbenzene and xylene	
Partition coefficient n-octanol/water (Log Kow)	< 3

12.4. Mobility in soil

barium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5,24

2,6-di-tert-butyl-p-cresol (128-37-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,9 – 4,2

12.5. Results of PBT and vPvB assessment

No additional information available

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

Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local legislation.

SECTION 14: Transport information

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

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

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

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

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

Seveso Directive (Disaster Risk Reduction)

Seveso III Part II (Named dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
22. Methanol	500	5000

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 additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3

Full text of H- and EUH-statements:	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single 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.