PLASMA LXR-M 2T

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 35871
Issue date: 19-09-24 Revision date: 12-08-26 Supersedes version of: 11-02-25 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : PLASMA LXR-M 2T
Product code : 35871 # 7313587R2
Type of product : Lubricants and additives

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

1.2.1. Relevant identified uses

Main use category : Consumer use
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor
SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60, F +32 (0).69.59.03.61
msds@bardahlfrance.com, www.bardahl.be

Supplier
SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60, F +32 (0).69.59.03.61
msds@bardahlfrance.com, www.bardahl.be

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P262 - Do not get in eyes, on skin, or on clothing.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

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

Component	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)	PBT: not yet assessed vPvB: not yet assessed
Phenol, dodecyl-, branched (121158-58-5)	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 substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: 64742-47-8 EC-No.: 926-141-6 REACH-no: 01-2119456620-43	15-25	Asp. Tox. 1, H304 EUH066
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	CAS-No.: 68411-46-1 EC-No.: 270-128-1	<0,5	Repr. 2, H361f

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 : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.

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.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Spill area may be slippery. Keep public away from danger area. Equip cleanup crew with proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Recover the product with absorbent material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.
Other information : Spill area may be slippery.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Provide local exhaust or general room ventilation.
Storage conditions	:	Store in a closed container. Keep out of frost.
Heat and ignition sources	:	Keep away from naked flames/heat. Keep away from ignition sources.
Information on mixed storage	:	Keep away from food, drink and animal feeding stuffs.
Storage area	:	Store in a well-ventilated place. Store in a dry place.
Special rules on packaging	:	Store in original container.

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

Methyl methacrylate (80-62-6)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	208 mg/m³
	50 ppm
MAK (OEL STEL)	416 mg/m³
	100 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	208 mg/m³
	50 ppm
OEL STEL	416 mg/m³
	100 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	102 mg/m³
	25 ppm
Korttidsgrænseværdi (OEL STEL)	204 mg/m³
	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	42 mg/m³
	10 ppm
HTP (OEL STEL)	210 mg/m³
	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	210 mg/m³
	50 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	208 mg/m³
CK (OEL STEL)	415 mg/m³

Methyl methacrylate (80-62-6)	
Ireland - Occupational Exposure Limits	
OEL TWA	50 ppm
OEL STEL	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	50 ppm
OEL STEL	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	10 mg/m³
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	205 mg/m³
	50 ppm
TGG-15min (OEL STEL)	410 mg/m³
	100 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m³
NDSCh (OEL STEL)	300 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	205 mg/m³
	50 ppm
OEL STEL	410 mg/m³
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	100 mg/m³
	50 ppm
VLA-EC (OEL STEL)	416 mg/m³
	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	200 mg/m³
	50 ppm
KGV (OEL STEL)	400 mg/m³
	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	208 mg/m³
	50 ppm
WEL STEL (OEL STEL)	416 mg/m³
	100 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	100 mg/m³
	25 ppm

Methyl methacrylate (80-62-6)	
Korttidsverdi (OEL STEL)	400 mg/m³
	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	210 mg/m³
	50 ppm
KZGW (OEL STEL)	420 mg/m³
	100 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	410 mg/m³
	100 ppm

diphenylamine (122-39-4)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m³
	0,7 ppm
MAK (OEL STEL)	10 mg/m³
	1,4 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m³
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	5 mg/m³
Korttidsgrænseværdi (OEL STEL)	10 mg/m³
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m³
HTP (OEL STEL)	10 mg/m³
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	10 mg/m³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	5 mg/m³
AGW (OEL C)	10 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	10 mg/m³
OEL STEL	20 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	8 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	4 mg/m³
OEL STEL	6 mg/m³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	10 mg/m³

diphenylamine (122-39-4)	
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	4 mg/m³
KGV (OEL STEL)	12 mg/m³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	10 mg/m³
WEL STEL (OEL STEL)	20 mg/m³
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	5 mg/m³

(2-methoxymethylethoxy)propanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308
	50 ppm
Remark	Skin
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	307 mg/m³
	50 ppm
MAK (OEL STEL)	614 mg/m³
	100 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	308 mg/m³
	50 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	309 mg/m³
	50 ppm
Korttidsgrænseværdi (OEL STEL)	618 mg/m³
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	310 mg/m³
	50 ppm
France - Occupational Exposure Limits	
Local name	(2-méthoxyméthyléthoxy)-propanol
VLEP 8h (OEL TWA)	308 mg/m³
	50 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	310 mg/m³
	50 ppm

(2-methoxymethylethoxy)propanol (34590-94-8)	
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	308 mg/m³
CK (OEL STEL)	308 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	308 mg/m³
	50 ppm
Italy - Occupational Exposure Limits	
OEL TWA	308 mg/m³
	50 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	308 mg/m³
	50 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	300 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m³
NDSCh (OEL STEL)	280 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	308 mg/m³
	50 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	308 mg/m³
	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	300 mg/m³
	50 ppm
KGV (OEL STEL)	450 mg/m³
	75 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	308 mg/m³
	50 ppm
WEL STEL (OEL STEL)*	924 mg/m³
	150 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	300 mg/m³
	50 ppm
KZGW (OEL STEL)	300 mg/m³
	50 ppm

(2-methoxymethylethoxy)propanol (34590-94-8)	
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	600 mg/m³
	100 ppm
ACGIH® TLV® STEL	900 mg/m³
	150 ppm

naphthalene (91-20-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	50 mg/m³
	10 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m³
	10 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	53 mg/m³
	10 ppm
OEL STEL	80 mg/m³
	15 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	50 mg/m³
	10 ppm
Korttidsgrænseværdi (OEL STEL)	100 mg/m³
	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m³
	1 ppm
HTP (OEL STEL)	10 mg/m³
	2 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	50 mg/m³
	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	2 mg/m³
	0,4 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	50 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm

naphthalene (91-20-3)	
Italy - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	50 mg/m³
TGG-15min (OEL STEL)	80 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	20 mg/m³
NDSCh (OEL STEL)	50 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	9,5 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	53 mg/m³
	10 ppm
VLA-EC (OEL STEL)	80 mg/m³
	15 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	50 mg/m³
	10 ppm
KGV (OEL STEL)	80 mg/m³
	15 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	53 mg/m³
	10 ppm
WEL STEL (OEL STEL)	80 mg/m³
	15 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m³
	10 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	50 mg/m³
	10 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

No additional information available

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 symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:
Good ventilation of the workplace 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	:	Blue.
Appearance	:	Oily.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	Not available
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	:	> 60 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available

Viscosity, kinematic	:	62,8 – 76,7 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	:	0,854 – 0,874 g/cm³ (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 under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

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

Methyl methacrylate (80-62-6)	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Vapours)	29,8 mg/l/4h

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Dodécanol, propoxylé, butoxylé (139873-90-8)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate (68413-48-9)	
LD50 oral	11,3 g/kg

Amines, C12-14-alkyl, C6-10-alkyl phosphates (68603-55-4)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

REACTION MASS OF: 4-[(3-DECYLOXYPROPYL)(3-ISOBUTOXY-1-ISOBUTOXYCARBONYL-3-OXOPROPYL)AMINO]-4-OXOBUTYRIC ACID AND 4-[(3-ISOBUTOXY-1-ISOBUTOXYCARBONYL-3-OXOPROPYL)(3-OCTYLOXYPROPYL)AMINO]-4-OXOBUTYRIC ACID	
LD50 oral	7700 mg/kg
LD50 dermal	> 2000 mg/kg

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

(2-methoxymethylethoxy)propanol (34590-94-8)	
LD50 oral rat	8740 mg/kg
LD50 dermal rabbit	9510 mg/kg
LC50 Inhalation - Rat	3404,47 mg/l

naphthalene (91-20-3)	
LD50 oral	490 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 340 mg/m³

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified (64742-94-5)	
LD50 dermal rabbit	> 2 ml/kg
LC50 Inhalation - Rat	> 590 mg/m³

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

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

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified (64742-94-5)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

diphenylamine (122-39-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
NOAEL (oral, rat, 90 days)	5 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate (68413-48-9)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
NOAEL (subchronic, oral, animal/male, 90 days)	1000 mg/kg bodyweight

Aspiration hazard : Not classified

PLASMA LXR-M 2T	
Viscosity, kinematic	62,8 – 76,7 mm²/s (40°C)

SYNESSTIC 5 189K DNN	
Viscosity, kinematic	29 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) : Not classified

Methyl methacrylate (80-62-6)	
LC50 - Fish [1]	> 79 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	69 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 110 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	9,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'
NOEC chronic crustacea	37 mg/l daphnia
NOEC chronic algae	110 mg/l Selenastrum capricornutum

diphenylamine (122-39-4)	
LC50 - Fish [1]	2,2 mg/l

diphenylamine (122-39-4)	
EC50 - Crustacea [1]	0,31 mg/l (Daphnia magna)
EC50 72h - Algae [1]	1,51 mg/l (Selenastrum capricornutum)
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	> 2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Other aquatic organisms [1]	> 74 mg/l
EC50 - Crustacea [1]	0,9 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	≤ 0,01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic algae	> 33,7 mg/l 72H
Dodécanol, propoxylé, butoxylé (139873-90-8)	
LC50 - Fish [1]	> 105 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
ErC50 algae	> 100 mg/l (Pseudokirchneriella subcapitata)
Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate (68413-48-9)	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Desmodesmus subspicatus
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1]	≤ 100 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
LC50 - Fish [1]	> 45 mg/l
(2-methoxymethylethoxy)propanol (34590-94-8)	
LC50 - Fish [1]	> 1000 mg/l Poecilia reticulata (Guppy)
EC50 - Crustacea [1]	1919 mg/l Daphnia magna
ErC50 algae	> 969 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	0,5 mg/l 22 d, Daphnia magna
NOEC chronic crustacea	0,5 mg/l 22 d, Daphnia magna
naphthalene (91-20-3)	
LC50 - Fish [1]	1,6 mg/l (Oncorhynchus mykiss)
LC50 - Fish [2]	48 hours
EC50 - Crustacea [1]	2350 µg/l 48 hours
EC50 - Crustacea [2]	1,96 mg/l (Daphnia - Water flea - Daphnia magna)
NOEC chronic fish	1,5 mg/l
NOEC chronic crustacea	0,5 mg/l

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified (64742-94-5)	
LC50 - Fish [1]	2 – 5 mg/l
EC50 - Crustacea [1]	3 – 10 mg/l
EC50 72h - Algae [1]	< 10 mg/l

12.2. Persistence and degradability

Rape oil (8002-13-9)	
Persistence and degradability	Product is biodegradable.
Biodegradation	> 95 %

Methyl methacrylate (80-62-6)	
Biodegradation	94 % Readily biodegradable

Glycerides, C14-26 (68002-72-2)	
Persistence and degradability	Readily biodegradable.

diphenylamine (122-39-4)	
Biodegradation	26 % (28d) (OCDE 301D method)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Persistence and degradability	Not readily biodegradable. (OECD 301B method).

Dodécanol, propoxylé, butoxylé (139873-90-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 %

(2-methoxymethylethoxy)propanol (34590-94-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	75 % 28 days

12.3. Bioaccumulative potential

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

diphenylamine (122-39-4)	
Partition coefficient n-octanol/water (Log Pow)	3,4 (calculé)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Bioconcentration factor (BCF REACH)	260 Oncorhynchus mykiss (Truite arc-en-ciel) - (OCDE 305)
Partition coefficient n-octanol/water (Log Pow)	9,2
Bioaccumulative potential	bioaccumulative.

Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate (68413-48-9)	
Partition coefficient n-octanol/water (Log Pow)	6,5

REACTION MASS OF: 4-[(3-DECYLOXYPROPYL)(3-ISOBUTOXY-1-ISOBUTOXYCARBONYL-3-OXOPROPYL)AMINO]-4-OXOBUTYRIC ACID AND 4-[(3-ISOBUTOXY-1-ISOBUTOXYCARBONYL-3-OXOPROPYL)(3-OCTYLOXYPROPYL)AMINO]-4-OXOBUTYRIC ACID	
Partition coefficient n-octanol/water (Log Kow)	> 4,33

(2-methoxymethylethoxy)propanol (34590-94-8)	
Partition coefficient n-octanol/water (Log Pow)	0,006

12.4. Mobility in soil

Methyl methacrylate (80-62-6)	
Ecology - soil	insoluble in water. Floats on water.

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Mobility in soil	Après libération, est absorbé par le sol.

(2-methoxymethylethoxy)propanol (34590-94-8)	
Ecology - soil	In water, material soluble.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Component	
Phenol, dodecyl-, branched (121158-58-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecological waste information : Do not discharge the product into the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated

ADR	IMDG	IATA	RID
14.5. Environmental hazards			
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

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 substance(s) listed on the REACH Candidate List < 0.1% or SCL.

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)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Seveso Directive (Disaster Risk Reduction)

Not applicable.

Explosives Precursors Regulation (EU 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 (EC 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

Austria

Ordinance on Flammable Liquids (VbF) : Auto detect

France

Occupational diseases	
Code	Description
RG 36	Diseases caused by oils and fats of mineral or synthetic origin
RG 65	Eczematiform lesions of allergic mechanism

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

SZW List of Carcinogenic Substances : Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene,Distillates (petroleum), hydrotreated heavy paraffinic are listed
SZW List of Mutagenic Substances : Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene,Distillates (petroleum), hydrotreated heavy paraffinic are listed
SZW List of Reprotoxic Substances – Breastfeeding : None of the components are listed
SZW List of Reprotoxic Substances – Fertility : None of the components are listed
SZW List of Reprotoxic Substances – Development : None of the components are listed

Denmark

Classification remarks : 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

Switzerland

Storage class (LK) : LK 10/12 - Liquids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Repr. 2	Reproductive toxicity, Category 2
H304	May be fatal if swallowed and enters airways.
H361f	Suspected of damaging fertility.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.