BD 50

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 3221
Issue date: 07-04-15 Revision date: 29-09-26 Supersedes version of: 09-06-26 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Product name : BD 50
UFI : 4UJR-P89S-C907-5PY1
Product code : 3221 # 731322R7
Type of product : Detergent,Aerosol
Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Intended for general public
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
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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]

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02 GHS07 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe vapours, gas.
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to a hazardous or special waste collection point.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

Extra phrases : Use as per instructions and specifically for this purpose.

Child-resistant fastening : Not applicable

Tactile warning : Not applicable

2.3. Other hazards

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

Component	
triphenyl phosphite (101-02-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII vPvB: not yet assessed
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	PBT: not yet assessed vPvB: not yet assessed
O,O,O-triphenyl phosphorothioate (597-82-0)	This substance meets the PBT criteria of REACH regulation, annex XIII vPvB: not yet assessed

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 %

Component	
O,O,O-triphenyl phosphorothioate (597-82-0)	The substance is not 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

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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics substance with national workplace exposure limit(s) (FR)	EC-No.: 918-481-9 REACH-no: 01-2119457273-39	40-55	Asp. Tox. 1, H304 EUH066
butane substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, LV, PL) (Note C)(Note U)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	10-20	Flam. Gas 1A, H220 Press. Gas
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	CAS-No.: 34140-91-5 EC-No.: 251-846-4 REACH-no: 01-2119974119-29	4-10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
propane substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, LV, PL, RO); substance with a Community workplace exposure limit (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	5-10	Flam. Gas 1A, H220 Press. Gas
ORANGE TERPENE	CAS-No.: 8028-48-6 EC-No.: 232-433-8 REACH-no: 01-2119493353-35	<5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(R)-p-mentha-1,8-diene substance with national workplace exposure limit(s) (DE, ES, FI)	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7 REACH-no: 01-2119529223-47	<0,5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412
linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 EC Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	<0,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
O,O,O-triphenyl phosphorothioate substance listed on REACH Candidate List	CAS-No.: 597-82-0 EC-No.: 209-909-9 REACH-no: 01-2119979545-21	<0,1	PBT, EUH440 Aquatic Chronic 1, H410 (M=10)

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
Note U - When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:. Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.
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

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Causes serious eye irritation.

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. Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	:	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
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. 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.

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. Provide good ventilation in process area to prevent formation of vapour. For further information refer to section 8: "Exposure controls/personal protection". Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.
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	:	Keep out of frost.
Heat and ignition sources	:	Keep away from naked flames/heat. Keep away from ignition sources. Do not expose to temperatures exceeding 50 °C/ 122 °F.
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

butane (106-97-8)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1600 mg/m³
	800 ppm
MAK (OEL STEL)	3800 mg/m³
	1600 ppm
Belgium - Occupational Exposure Limits	
OEL STEL	2370 mg/m³
	980 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	1200 mg/m³
	500 ppm
Korttidsgrænseværdi (OEL STEL)	2400 mg/m³
	1000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	1900 mg/m³
	800 ppm
HTP (OEL STEL)	2400 mg/m³
	1000 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	1900 mg/m³
	800 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	2400 mg/m³
	1000 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	9400 mg/m³
CK (OEL STEL)	2350 mg/m³
Ireland - Occupational Exposure Limits	
OEL STEL	1000 mg/m³
Latvia - Occupational Exposure Limits	
OEL TWA	300 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1900 mg/m³
NDSP (OEL C)	3000 mg/m³

butane (106-97-8)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	1935 mg/m³
	800 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	1450 mg/m³
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m³
	750 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	600 mg/m³
	250 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	1900 mg/m³
	800 ppm

propane (74-98-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1000 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	1800 mg/m³
	1000 ppm
MAK (OEL STEL)	3600
	2000 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	1000 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	1800 mg/m³
	1000 ppm
Korttidsgrænseværdi (OEL STEL)	3600 mg/m³
	2000 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	1500 mg/m³
	800 ppm
HTP (OEL STEL)	2000 mg/m³
	1100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	1800 mg/m³
	1000 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	1800 mg/m³

propane (74-98-6)	
	1000 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1800 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	1400 mg/m³
	778 ppm
OEL STEL	1800 mg/m³
	1000 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	1000 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	1800 mg/m³
	1000 ppm
KZGW (OEL STEL)	7200 mg/m³
	4000 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	1800 mg/m³
	1000 ppm

mineral oil	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³

2-ethylhexan-1-ol (104-76-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-ethylhexan-1-ol
IOEL TWA	5,4 mg/m³
	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	5,4 mg/m³
	1 ppm
MAK (OEL STEL)	10,8 mg/m³
	2 ppm
Belgium - Occupational Exposure Limits	
Local name	2-Ethylhexan-1-ol # Ethylhexaan-1-ol
OEL TWA	5,4 mg/m³
	1 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

2-ethylhexan-1-ol (104-76-7)	
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	5,4 mg/m³
	1 ppm
Korttidsgrænseværdi (OEL STEL)	10,8 mg/m³
	2 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5,4 mg/m³
	1 ppm
France - Occupational Exposure Limits	
Local name	2-Ethylhexan-1-ol
VLEP 8h (OEL TWA)	5,4 mg/m³
	1 ppm
Remark	Valeurs réglementaires indicatives
Regulatory reference	Arrêté du 30 juin 2004 modifié (réf.: INRS ED 6443, 2022; Outil65; Arrête du 27 septembre 2019)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	54 mg/m³
	10 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5,4 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	5,4 mg/m³
	1 ppm
Italy - Occupational Exposure Limits	
OEL TWA	5,4 mg/m³
	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	5,4 mg/m³
	1 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	5,4 mg/m³
	1 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5,4 mg/m³
	1 ppm
NDSCh (OEL STEL)	10,8 mg/m³
	2 ppm
Romania - Occupational Exposure Limits	
OEL TWA	5,4 mg/m³

2-ethylhexan-1-ol (104-76-7)	
	1 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	5,4 mg/m³
	1 ppm
VLA-EC (OEL STEL)	110 mg/m³
	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	5,4 mg/m³
	1 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	5,4 mg/m³
	1 ppm
WEL STEL (OEL STEL)*	16,2 mg/m³
	3 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	5,4 mg/m³
	1 ppm
Korttidsverdi (OEL STEL)	54 mg/m³
	10 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	5,4 mg/m³
	1 ppm
KZGW (OEL STEL)	10,8 mg/m³
	2 ppm

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	1200 mg/m³
	184 ppm

(R)-p-mentha-1,8-diene (5989-27-5)	
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	140 mg/m³
	25 ppm
HTP (OEL STEL)	280 mg/m³
	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	28 mg/m³
	5 ppm

(R)-p-mentha-1,8-diene (5989-27-5)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	168 mg/m³
	30 ppm
VLA-EC (OEL STEL)	80 mg/m³
	14 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	40 mg/m³
	7 ppm
KZGW (OEL STEL)	80 mg/m³
	14 ppm

3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	113 mg/m³
	20 ppm

Pin-2(3)-ène (80-56-8)	
Belgium - Occupational Exposure Limits	
Local name	Essence de térébenthine et monoterpènes sélectionés # Terpentijn en geselecteerde monoterpenen
OEL TWA	20 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	113 mg/m³
	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m³
	25 ppm
KGV (OEL STEL)	300 mg/m³
	50 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. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

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	:	Yellow.
Appearance	:	Aerosol.
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	:	61 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	< 20,5 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	:	0,828 (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

% of flammable ingredients : 35,86 %

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions. Contains gas under pressure; may explode if heated.

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

propane (74-98-6)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 50 mg/l/4h

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LD50 oral rat	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

triphenyl phosphite (101-02-0)	
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: other:

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	
LD50 oral rat	3100 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg bodyweight

mineral oil	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h

2-ethylhexan-1-ol (104-76-7)	
LD50 oral rat	≈ 2047 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 3000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	0,89 – 5,3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

O,O,O-triphenyl phosphorothioate (597-82-0)	
LD50 oral rat	> 10000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 5 mg/l/4h

(R)-p-mentha-1,8-diene (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5 g/kg

linalool (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg

Linalyl acetate (115-95-7)	
LD50 oral rat	9000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

methyl anthranilate (134-20-3)	
LD50 oral rat	2910 mg/kg
LD50 dermal rabbit	> 5 g/kg

Ethyl 2-naphthyl ether (93-18-5)	
LD50 oral rat	3110 mg/kg
LD50 dermal rabbit	> 5 g/kg

2-ACETONAPHTHONE (93-08-3)	
LD50 oral rat	599 mg/kg
LD50 dermal rabbit	4000 mg/kg

7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

benzyl salicylate (118-58-1)	
LD50 oral rat	2200 mg/kg
LD50 dermal rabbit	14150 mg/kg

GERANIOL (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

NEROL (106-25-2)	
LD50 oral rat	4500 mg/kg
LD50 dermal rabbit	> 5 g/kg

INDOLE (120-72-9)	
LD50 oral rat	1000 mg/kg
LD50 dermal rabbit	790 mg/kg

3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
LD50 oral rat	4800 mg/kg
LC50 Inhalation - Rat	1,5 mg/l

Pin-2(3)-ène (80-56-8)	
LD50 dermal rat	5000 mg/kg

p-mentha-1,4-diene (99-85-4)	
LD50 oral rat	3650 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

PHENETHYL ALCOHOL (60-12-8)	
LD50 oral rat	1610 mg/kg
LD50 dermal rabbit	2500 mg/kg

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

2-ethylhexan-1-ol (104-76-7)	
NOAEL (chronic, oral, animal/male, 2 years)	500 mg/kg bodyweight (OECD 451 method)
NOAEL (chronic, oral, animal/female, 2 years)	500 mg/kg bodyweight (OECD 451 method)

Reproductive toxicity : Not classified

O,O,O-triphenyl phosphorothioate (597-82-0)	
NOAEL (animal/male, F0/P)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/female, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/male, F1)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/female, F1)	1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:

STOT-single exposure : Not classified

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

STOT-repeated exposure : Not classified

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:
NOAEL (oral, rat, 90 days)	0,4 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/male, 90 days)	1 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

triphenyl phosphite (101-02-0)	
NOAEL (oral, rat, 90 days)	15 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

2-ethylhexan-1-ol (104-76-7)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, gas, 90 days)	120 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

linalool (78-70-6)	
NOAEL (subacute, oral, animal/male, 28 days)	117 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	117 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	250 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight

Aspiration hazard : Not classified

BD 50	
Vaporizer	Aerosol
Viscosity, kinematic	< 20,5 mm²/s (40°C)

TRIMETHYLOL PROPANE ESTER	
Viscosity, kinematic	47 mm²/s (40°C)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Viscosity, kinematic	1,3 mm²/s

ORANGE TERPENE (8028-48-6)	
Viscosity, kinematic	1,17 mm²/s (20°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) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LC50 - Fish [1]	0,95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1,4 mg/l
EC50 72h - Algae [1]	0,006 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0,00473 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (acute)	993,2 mg/kg

triphenyl phosphite (101-02-0)	
LC50 - Fish [1]	> 12 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0,94 mg/l (Daphnia magna)

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	
LC50 - Fish [1]	4,4 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	75 mg/l Daphnia magna ; 2 days
EC50 72h - Algae [1]	410 mg/l Scenedesmus quadricauda ; 3 days
NOEC chronic crustacea	0,4 mg/l (Daphnia magna), 21 d
NOEC chronic algae	220 mg/l Scenedesmus quadricauda; 3 days

mineral oil	
LC50 - Fish [1]	> 100 mg/l (Pimephales promelas)
EC50 - Crustacea [1]	> 10000 mg/l (Daphnia magma)
EC50 72h - Algae [1]	> 100 mg/l (Scenedesmus quadricauda)
NOEC chronic crustacea	> 10 mg/l (Daphnia magma) ; 21 days

2-ethylhexan-1-ol (104-76-7)	
LC50 - Fish [1]	17,1 mg/l Test organisms (species): Leuciscus idus melanotus
LC50 - Fish [2]	28,2 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	39 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	11,5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	16,6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

O,O,O-triphenyl phosphorothioate (597-82-0)	
LC50 - Fish [1]	> 100 mg/l OCDE 203
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
ErC50 algae	> 100 mg/l OCDE 201
NOEC chronic fish	0,0017 mg/l 97d

O,O,O-triphenyl phosphorothioate (597-82-0)	
NOEC chronic crustacea	> 0,000724 mg/l 21d (Daphnia magna)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l Daphnia Magna
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchnerella subcapitata
NOEC chronic algae	1000 mg/l Pseudokirchnerella subcapitata
(R)-p-mentha-1,8-diene (5989-27-5)	
LC50 - Fish [1]	0,8 mg/l
EC50 - Crustacea [1]	69,6 mg/l
linalool (78-70-6)	
LC50 - Fish [1]	27,8 mg/l
EC50 72h - Algae [1]	156,7 mg/l
methyl anthranilate (134-20-3)	
EC50 - Crustacea [1]	21,9 mg/l
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
LC50 - Fish [1]	1,3 mg/l
EC50 - Crustacea [1]	1,48 mg/l
EC50 72h - Algae [1]	0,34 mg/l
benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1,03 mg/l (OECD 203)
EC50 - Crustacea [1]	2,25 mg/l (OECD 202)
EC50 72h - Algae [1]	1,29 mg/l
NOEC chronic algae	0,502 mg/l
GERANIOL (106-24-1)	
LC50 - Fish [1]	14 mg/l (TEPA and OECD)
EC50 - Crustacea [1]	10,8 mg/l (OECD 202)
EC50 72h - Algae [1]	13,1 mg/l (OECD 201)
ErC50 algae	13,1 mg/l (OECD 201)
NEROL (106-25-2)	
LC50 - Fish [1]	14 mg/l
LC50 - Fish [2]	20,3 mg/l
EC50 - Crustacea [1]	32,4 mg/l
EC50 72h - Algae [1]	7,45 mg/l
NOEC chronic algae	2,58 mg/l
INDOLE (120-72-9)	
LC50 - Fish [1]	19,76 mg/l
EC50 - Crustacea [1]	2 mg/l

INDOLE (120-72-9)	
EC50 72h - Algae [1]	37,3 mg/l

Pin-2(3)-ène (80-56-8)	
LC50 - Fish [1]	0,303 mg/l
EC50 - Crustacea [1]	0,475 mg/l
EC50 72h - Algae [1]	0,131 mg/l
NOEC chronic fish	0,131 mg/l

p-mentha-1,4-diene (99-85-4)	
EC50 - Crustacea [1]	3,45 mg/l Daphnie magna

12.2. Persistence and degradability

propane (74-98-6)	
Persistence and degradability	Readily biodegradable.

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	66 % 28 days

triphenyl phosphite (101-02-0)	
Biodegradation	0,14 % OECD TG 301 D

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	
Persistence and degradability	Not readily biodegradable. (OECD 301D method). <5 % biodegradation 28 days.

mineral oil	
Persistence and degradability	Not readily biodegradable. (OECD 301B method). 31 % biodegradation 28 days.

O,O,O-triphenyl phosphorothioate (597-82-0)	
Persistence and degradability	Not rapidly degradable.
Biodegradation	19,3 % 29d

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Biodegradation	80 % 28 days

ORANGE TERPENE (8028-48-6)	
Persistence and degradability	Readily biodegradable.

(R)-p-mentha-1,8-diene (5989-27-5)	
Persistence and degradability	Readily biodegradable.

linalool (78-70-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	64,2 % 28 days - OECD 301D

Linalyl acetate (115-95-7)	
Persistence and degradability	Readily biodegradable.

methyl anthranilate (134-20-3)	
Persistence and degradability	Readily biodegradable.

7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Persistence and degradability	(OECD 301C method). Readily biodegradable.
Biodegradation	86 % 28 days

benzyl salicylate (118-58-1)	
Persistence and degradability	Readily biodegradable.

GERANIOL (106-24-1)	
Persistence and degradability	Readily biodegradable.

NEROL (106-25-2)	
Persistence and degradability	Readily biodegradable.

INDOLE (120-72-9)	
Persistence and degradability	Readily biodegradable.

3,7,7-trimethylbicyclo[4.1.0]hept-3-ene (13466-78-9)	
Persistence and degradability	Readily biodegradable.

Pin-2(3)-ène (80-56-8)	
Persistence and degradability	Readily biodegradable.

p-mentha-1,4-diene (99-85-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 %

PHENETHYL ALCOHOL (60-12-8)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
Partition coefficient n-octanol/water (Log Kow)	0,03

triphenyl phosphite (101-02-0)	
Partition coefficient n-octanol/water (Log Kow)	6,62 (25°C)

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)	
Partition coefficient n-octanol/water (Log Kow)	3,6

2-ethylhexan-1-ol (104-76-7)	
Bioconcentration factor (BCF REACH)	25,35
Partition coefficient n-octanol/water (Log Kow)	2,9 (OECD 117 method)

O,O,O-triphenyl phosphorothioate (597-82-0)	
Bioconcentration factor (BCF REACH)	2551

ORANGE TERPENE (8028-48-6)	
Partition coefficient n-octanol/water (Log Pow)	≥ 4 (>80% product)

(R)-p-mentha-1,8-diene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4,38

linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2,7

Linalyl acetate (115-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3,9

methyl anthranilate (134-20-3)	
Partition coefficient n-octanol/water (Log Pow)	1,9

2-ACETONAPHTHONE (93-08-3)	
Partition coefficient n-octanol/water (Log Pow)	2,9

7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Partition coefficient n-octanol/water (Log Pow)	4,82
Bioaccumulative potential	High potential (3).

benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4

GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2,6

p-mentha-1,4-diene (99-85-4)	
Partition coefficient n-octanol/water (Log Pow)	4,5

12.4. Mobility in soil

2-ethylhexan-1-ol (104-76-7)	
Mobility in soil	1,42
Surface tension	47 mN/m (OECD 115 method)

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 : 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. Dispose used or damaged aerosol cans at permitted disposal sites.

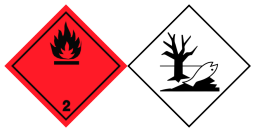
Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

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

European List of Waste (LoW, EC 2000/532) : 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS (contains : oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)), 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS (contains : oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)), 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1950 Aerosols, flammable (contains : oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)), 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS (contains contains : oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)), 2.1, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
			
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP200

Special packing provisions (IMDG)	:	PP87, L2
EmS-No. (Fire)	:	F-D
EmS-No. (Spillage)	:	S-U
Stowage category (IMDG)	:	None
Stowage and handling (IMDG)	:	SW1, SW22
Segregation (IMDG)	:	SG69

Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Y203
PCA limited quantity max net quantity (IATA)	:	30kgG
PCA packing instructions (IATA)	:	203
PCA max net quantity (IATA)	:	75kg
CAO packing instructions (IATA)	:	203
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A145, A167, A802
ERG code (IATA)	:	10L

Rail transport

Classification code (RID)	:	5F
Special provisions (RID)	:	190, 327, 344, 625
Limited quantities (RID)	:	1L
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P207, LP200
Special packing provisions (RID)	:	PP87, RR6, L2
Mixed packing provisions (RID)	:	MP9
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W14
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW12
Colis express (express parcels) (RID)	:	CE2
Hazard identification number (RID)	:	23

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: O,O,O-triphenyl phosphorothioate (EC 209-909-9, CAS 597-82-0).

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)

Detergent Regulation (EC 648/2004)

Fragrance allergens > 0.01%:
LIMONENE
LINALOOL
GERANIOL
BENZYL SALICYLATE

Labelling of contents	
Component	**%**
aliphatic hydrocarbons	≥30%
cationic surfactants	5-15%
aromatic hydrocarbons	<5%
perfumes	
LIMONENE	
LINALOOL	
LINALYL ACETATE	
GERANIOL	
BENZYL SALICYLATE	
CITRUS AURANTIUM DULCIS FLOWER EXTRACT	

Seveso Directive (Disaster Risk Reduction)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P3a FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1	150	500
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

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

France

Occupational diseases	
Code	Description
RG 36	Diseases caused by oils and fats of mineral or synthetic origin
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
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	:	ORANGE TERPENE is listed
SZW List of Mutagenic Substances	:	ORANGE TERPENE is 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

Class for fire hazard	:	Class III-1
Store unit	:	50 liter
Classification remarks	:	Flammable according to the Danish Ministry of Justice; 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 it. If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

Switzerland

Storage class (LK)	:	LK 2 - Liquefied or pressurized gases

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Aerosol 1	Aerosol, Category 1
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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 3	Flammable liquids, Category 3
PBT	Persistent, bioaccumulative and toxic
Press. Gas	Gases under pressure
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
EUH440	Accumulates in the environment and living organisms including in humans.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.

Full text of H- and EUH-statements:	
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.
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.