



TURBO PROTECT BARD AHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 3216B

Issue date: 19-12-17 Revision date: 31-08-20 Supersedes version of: 19-12-17 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : TURBO PROTECT BARD AHL
Product code : 3216B # 736321BR0
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

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 BARD AHL 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.fr

Supplier

SADAPS BARD AHL 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.fr

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 MSD Msida	+356 2545 6504	
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 Abu Dhabi	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+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]

Skin corrosion/irritation, Category 2

H315

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411
Full text of H 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)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

Child-resistant fastening

Tactile warning

- : Danger
- : Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched); Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs; Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate); triphenyl phosphite; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts; Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts
- : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H411 - Toxic to aquatic life with long lasting effects.
- : 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.
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.
P310 - Immediately call a POISON CENTER, a doctor.
P333+P313 - If skin irritation or rash occurs: 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.
- : Not applicable
- : Not applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	(CAS-No.) 4259-15-8 (EC-No.) 224-235-5 (REACH-no) 01-2119493635-27	5-10	Eye Dam. 1, H318 Aquatic Chronic 2, H411 (M=0)
AMINES, POLYETHYLENEPOLY-, REACTION PRODUCTS WITH 1,3-DIOXOLAN-2-ONE AND SUCCINIC ANHYDRIDE MONOPOLYISOBUTENYL DERIVS.	(CAS-No.) 147880-09-9 (EC-No.) 604-611-9	1-5	Aquatic Chronic 4, H413
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	(EC-No.) 931-384-6 (REACH-no) 01-2119493620-38	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	(CAS-No.) 68784-31-6 (EC-No.) 272-238-5 (REACH-no) 01-2119657973-23	<3	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	(CAS-No.) 68784-26-9 (EC-No.) 272-234-3 (REACH-no) 01-2119524004-56	<3	Aquatic Chronic 4, H413
bis(nonylphenyl)amine	(CAS-No.) 36878-20-3 (EC-No.) 253-249-4 (REACH-no) 01-2119488911-28	<3	Aquatic Chronic 4, H413 (M=0)
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts	(CAS-No.) 722503-68-6 (EC-No.) 682-816-2	<3	Skin Sens. 1, H317 Aquatic Chronic 4, H413
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	(CAS-No.) 1213789-63-9 (EC-No.) 627-034-4 (REACH-no) 01-2119473797-19	<3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7 (REACH-no) 01-2119511213-58	<1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs	(EC-No.) 939-460-0 (REACH-no) 01-2119971727-23	<1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2-ethylhexan-1-ol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, LV, PL, RO, SE)	(CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20	<0.5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
O,O,O-triphenyl phosphorothioate	(CAS-No.) 597-82-0 (EC-No.) 209-909-9 (REACH-no) 01-2119979545-21	<0.5	Not classified

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Phenol, dodecyl-, branched	(CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (EC Index-No.) 604-092-00-9 (REACH-no) 01-2119513207-49	<0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	(CAS-No.) 4259-15-8 (EC-No.) 224-235-5 (REACH-no) 01-2119493635-27	(1 ≤C < 10) Eye Irrit. 2, H319 (50 ≤C < 100) Eye Dam. 1, H318
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	(EC-No.) 931-384-6 (REACH-no) 01-2119493620-38	(0 ≤C < 10) Eye Irrit. 2, H319 (9,39 ≤C < 100) Skin Sens. 1, H317 (50 ≤C < 100) Eye Dam. 1, H318
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7 (REACH-no) 01-2119511213-58	(5 ≤C ≤ 100) Eye Irrit. 2, H319 (5 ≤C ≤ 100) Skin Irrit. 2, H315
O,O,O-triphenyl phosphorothioate	(CAS-No.) 597-82-0 (EC-No.) 209-909-9 (REACH-no) 01-2119979545-21	(100 ≤C < 100) Unst. Expl.

Comments : The mineral oils in the product contain <3% DMSO-extract (IP 346).
Full text of H-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 damage.

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

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

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.
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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.
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.
Storage area	: Store in a dry place. Store in a well-ventilated 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

2-ethylhexan-1-ol (104-76-7)

EU - Occupational Exposure Limits

Local name	2-ethylhexan-1-ol
IOELV TWA (mg/m ³)	5,4 mg/m ³

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-ethylhexan-1-ol (104-76-7)	
IOELV TWA (ppm)	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Austria - Occupational Exposure Limits	
MAK Daily average value (mg/m ³)	5,4 mg/m ³
MAK Daily average value (ppm)	1 ppm
MAK Short time value (mg/m ³)	10,8 mg/m ³
MAK Short time value (ppm)	2 ppm
Belgium - Occupational Exposure Limits	
Limit value (mg/m ³)	5,4 mg/m ³
Limit value (ppm)	1 ppm
Denmark - Occupational Exposure Limits	
Grænsevædi (8 timer) (mg/m ³)	5,4 mg/m ³
Grænsevædi (8 timer) (ppm)	1 ppm
Grænsevædi (STEL) (mg/m ³)	10,8 mg/m ³
Grænsevædi (STEL) (ppm)	2 ppm
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m ³)	5,4 mg/m ³
HTP-arvo (8h) (ppm)	1 ppm
France - Occupational Exposure Limits	
VME (mg/m ³)	5,4 mg/m ³
VME (ppm)	1 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m ³)	54 mg/m ³
Occupational exposure limit value (ppm)	10 ppm
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	5,4 mg/m ³
OEL (8 hours ref) (ppm)	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5,4 mg/m ³
OEL TWA (ppm)	1 ppm
Poland - Occupational Exposure Limits	
NDS (mg/m ³)	5,4 mg/m ³
NDSP (mg/m ³)	10,8 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m ³)	5,4 mg/m ³
OEL TWA (ppm)	1 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m ³)	5,4 mg/m ³
VLA-ED (ppm)	1 ppm
VLA-EC (mg/m ³)	110 mg/m ³
VLA-EC (ppm)	20 ppm

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-ethylhexan-1-ol (104-76-7)

Sweden - Occupational Exposure Limits

nivågränsvärde (NVG) (mg/m ³)	5,4 mg/m ³
nivågränsvärde (NVG) (ppm)	1 ppm

United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m ³)	5,4 mg/m ³
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Switzerland - Occupational Exposure Limits

MAK (mg/m ³)	5,4 mg/m ³
MAK (ppm)	1 ppm
KZGW (mg/m ³)	10,8 mg/m ³
KZGW (ppm)	2 ppm

8.2. Exposure controls

Hand protection:

Gloves. EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Good ventilation of the workplace required

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: dark brown.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 60 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,954 – 0,964 g/cm ³ (20°C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 74,9 – 91,55 mm ² /s (40°C)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

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 toxicological effects

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

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

LD50 oral rat	1689 mg/kg
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2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	2047 – 3730 mg/kg
LD50 dermal rat	> 3000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	0,89 – 5,3 mg/l/4h

Mineral oil

LD50 oral rat	> 5000 mg/kg
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TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

LD50 dermal rabbit	> 5000 mg/kg
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

TURBO PROTECT BARDAHL

Viscosity, kinematic	74,9 – 91,55 mm ² /s (40°C)
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

LC50 fish 1	0,11 mg/l (Fathead Minnow)
LC50 fish 2	1,3 mg/l (Rainbow Trout)
EC50 Daphnia 1	0,011 mg/l (Daphnia Magna)
EC50 72h algae (1)	> 0,1 mg/l

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

LC50 fish 1	4,4 mg/l LC50/96h/trout
EC50 other aquatic organisms 1	75 mg/l 48 hours
EC50 72h algae (1)	410 mg/l

triphenyl phosphite (101-02-0)

EC50 other aquatic organisms 1	0,94 mg/l 48 hours
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2-ethylhexan-1-ol (104-76-7)

LC50 fish 1	28,2 mg/l (Pimephales promelas, 4DY)
LC50 fish 2	17,1 mg/l (Ide mélanote (Leuciscus idus), 4DY)
EC50 Daphnia 1	1,82 mg/l (48h)
EC50 Daphnia 2	2,72 mg/l (24h)
EC50 other aquatic organisms 1	39 mg/l (Cladocère, 2DY)
EC50 72h algae (1)	16,6 mg/l Scenedesmus subspicatus

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

EC50 72h algae (2)	11,5 mg/l <i>Desmodesmus subspicatus</i>
EC50 96h algae (1)	1,3 mg/l <i>Skeletonema costatum</i>
NOEC chronic fish	14 mg/l (<i>Ide mélanote</i> (<i>Leuciscus idus</i>), 4DY)

O,O,O-triphenyl phosphorothioate (597-82-0)

LC50 fish 1	> 100 mg/l (Zebra Fish)
EC50 Daphnia 1	> 100 mg/l (Daphnia Magna)
EC50 72h algae (1)	> 100 mg/l (<i>Scenedesmus quadricauda</i>)

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

LC50 fish 1	> 1000 mg/l (méthode OCDE 203)
LC50 other aquatic organisms 1	> 100 mg/l (<i>Crangon crangon</i>)
EC50 Daphnia 1	> 1000 mg/l (OCDE 202)
ErC50 (algae)	> 500 mg/l (méthode OCDE 201)
NOEC chronic algae	> 500 mg/l 96h (<i>Pseudokirchneriella subcapitata</i>) (OCDE 201)

12.2. Persistence and degradability

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

Biodegradation	66 % OECD 301B
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triphenyl phosphite (101-02-0)

Biodegradation	5 – 9,9 %
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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

Persistence and degradability	Not readily biodegradable.
Biodegradation	13,4 % Directive 67/548/CEE, Annex V, C.4.C.

12.3. Bioaccumulative potential

(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)

Bioconcentration factor (BCF REACH)	500
Partition coefficient n-octanol/water (Log Kow)	4,33 (25°C)

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

Partition coefficient n-octanol/water (Log Kow)	3,6
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triphenyl phosphite (101-02-0)

Partition coefficient n-octanol/water (Log Kow)	6,62
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2-ethylhexan-1-ol (104-76-7)

Partition coefficient n-octanol/water (Log Kow)	2,9
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Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)

Bioconcentration factor (BCF REACH)	2,2
Partition coefficient n-octanol/water (Log Pow)	9,5

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

2-ethylhexan-1-ol (104-76-7)

Mobility in soil	-1,42
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12.5. Results of PBT and vPvB assessment

Component

Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9)	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
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12.6. 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.
Ecology - waste materials	: Do not discharge the product into the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	RID
14.1. UN number			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (CONTAINS : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS : Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)), 9, III
14.3. Transport hazard class(es)			
9	9	9	9
			

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

14.4. Packing group

III

III

III

III

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) : M6
Special provisions (ADR) : 274, 335, 375, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : -
EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list $\geq 0,1$ % / SCL

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Directive 2012/18/EU (SEVESO III)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

15.1.2. National regulations

France

Occupational diseases	: RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse RG 49 - Affections cutanées provoquées par les amines aliphatiques, alicycliques ou les éthanolamines RG 65 - Lésions eczématiformes de mécanisme allergique
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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)
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Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased, Phenol, dodecyl-, branched are listed

SZW-lijst van mutagene stoffen : Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased, Phenol, dodecyl-, branched are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Phenol, dodecyl-, branched is 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
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

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
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
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
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360F	May damage fertility.
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.

TURBO PROTECT BARDAHL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

SDS EU (REACH Annex II)

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.