



HYDRAULIC VALVE LIFTERS - BARD AHL

Safety Data Sheet

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

Date of issue: 31-03-16 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : HYDRAULIC VALVE LIFTERS - BARD AHL
Product code : 1022B # 732102RR2
Type of product : Lubricants

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

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.bardahlfrance.com

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
Greece	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 10 779 3777	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, H319
Category 2
Hazardous to the aquatic environment H412
— Chronic Hazard, Category 3
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) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation
H412 - Harmful to aquatic life with long lasting effects

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Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P273 - Avoid release to the environment P280 - Wear eye protection/face protection P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P501 - Dispose of contents/container in accordance with local regulations
EUH-statements	: EUH208 - Contains triphenyl phosphite(101-02-0). May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Mineral oil substance with a Community workplace exposure limit (Note L)		5-10	Not classified
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	(CAS No) 4259-15-8 (EC no) 224-235-5 (REACH-no) 01-2119493635-27	1-5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
triphenyl phosphite	(CAS No) 101-02-0 (EC no) 202-908-4 (EC index no) 015-105-00-7 (REACH-no) 01-2119511213-58	<0.5	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
O,O,O-triphenyl phosphorothioate	(CAS No) 597-82-0 (EC no) 209-909-9 (REACH-no) 01-2119979515-21	<0.5	Repr. 2, H361 Aquatic Chronic 4, H413

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	(50 =<C < 100) Eye Dam. 1, H318

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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 or doctor/physician.

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

Symptoms/injuries after eye contact : Causes serious eye irritation.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Sand.
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. Keep public away from danger area. Equip cleanup crew with proper protection. Spill area may be slippery.

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

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

Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep out of frost. Keep away from heat.
Maximum storage period : 60 months

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Oil mist		
France	VME (mg/m ³)	5 mg/m ³
France	VLE (mg/m ³)	10 mg/m ³
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
France	VME (mg/m ³)	7 (8h)
France	VME (ppm)	5 ppm (8h)
France	VLE (mg/m ³)	14 mg/m ³ (15m)
France	VLE (ppm)	10 ppm (15m)
Mineral oil		
EU	IOELV TWA (mg/m ³)	5 mg/m ³ 8H
Belgium	Limit value (mg/m ³)	5 mg/m ³ (8h)
Belgium	Short time value (mg/m ³)	10 mg/m ³ (15min)
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³ (8h)
Denmark	Grænseværdie (langvarig) (mg/m ³)	1 mg/m ³

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Mineral oil		
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
France	VME (mg/m ³)	5 mg/m ³ (8h)
France	VLE (mg/m ³)	10 mg/m ³ (15min)
Greece	OEL TWA (mg/m ³)	5 mg/m ³ (8h)
Hungary	CK-érték	5 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	5 mg/m ³ (8h)
Latvia	OEL TWA (mg/m ³)	5 mg/m ³ (8h)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	5 mg/m ³
Portugal	OEL TWA (mg/m ³)	5 mg/m ³ (8h)
Portugal	OEL STEL (mg/m ³)	10 mg/m ³
Romania	OEL TWA (mg/m ³)	5 mg/m ³ (8h)
Romania	OEL STEL (mg/m ³)	10 mg/m ³ (15min)
Spain	VLA-ED (mg/m ³)	5 mg/m ³ (8h)
Spain	VLA-EC (mg/m ³)	10 mg/m ³ (15min)
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	3 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (8h)
USA - ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³

8.2. Exposure controls

Hand protection:

In case of repeated or prolonged contact wear gloves

Eye protection:

Avoid contact with eyes. Safety glasses

Type	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Good ventilation of the workplace required



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: clear.
Colour	: brown. red.
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	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,885 - 0,895 g/cm ³ 20°C
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 9 - 13 mm ² /s 100°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 : Not classified

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5,53 mg/l/4h

Mineral oil	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 0,005 mg/l/4h
LC50 inhalation rat (Vapours - mg/l/4h)	> 5000 mg/l/4h

2-ethylhexan-1-ol (104-76-7)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	9 - 13 mm ² /s 100°C
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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 other aquatic organisms 1	39 mg/l (Cladocère, 2DY)
EC50 72h algae (1)	16,6 mg/l
NOEC chronic fish	14 mg/l (Ide mélanote (Leuciscus idus), 4DY)

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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12.2. Persistence and degradability

triphenyl phosphite (101-02-0)

Biodegradation	5 - 9,9 %
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12.3. Bioaccumulative potential

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Log Pow	> 3
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2-ethylhexan-1-ol (104-76-7)

Log Kow	2,9
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Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

Log Kow	3,6
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triphenyl phosphite (101-02-0)

Log Kow	6,62
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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

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not discharge into drains or the environment.
Waste disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.
Ecology - waste materials : Do not discharge the product into the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated
UN-No. (IATA)	: Not regulated
UN-No. (ADN)	: Not regulated
UN-No. (RID)	: Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not regulated
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Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated
Proper Shipping Name (ADN)	: Not regulated
Proper Shipping Name (RID)	: Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated
Packing group (ADN)	: Not regulated
Packing group (RID)	: Not regulated

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

14.7. 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

Contains no REACH Annex XIV substances

15.1.2. National regulations

France

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Occupational diseases : RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components 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

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

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 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
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
H413	May cause long lasting harmful effects to aquatic life
EUH208	Contains . May produce an allergic reaction

Eye Irrit. 2	H319	
Aquatic Chronic 3	H412	Calculation method

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