

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 5/7/2015 Revision date: 7/2/2018 Supersedes: 12/1/2016 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Name : Full Metal
Product code : 2007
Article number : 2007

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : 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

BARDAHL NL - OCD NEDERLAND BV

Maxwellstraat 41

3316 GP Dordrecht - Nederland

T 0031 78 651 2322 - F 0031 78 617 4848 rjjonker@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010

During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
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)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

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

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

: H319 - Causes serious eye irritation. Hazard statements (CLP)

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children. P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective gloves.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a 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 to to a facility for the collection of hazardous or

special waste..

: EUH208 - Contains triphenyl phosphite(101-02-0). May produce an allergic reaction. **EUH-statements**

2.3. Other hazards

No additional information available

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]	
Mineral Oil (Note L)	(CAS-No.) - (EC-No.) -	20 - 40	Carc. 1B, H350	
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 - 10	Eye Dam. 1, H318 Aquatic Chronic 2, H411	
Methacrylate Copolymer	(EC-No.) POLYMER	1 - 5	Eye Irrit. 2, H319	
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	
Ethylhexylique (2-) Alcool	(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		
Specific concentration limits:				
Name	Product identifier	Specific concentration limits		
triphenyl phosphite	(CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7 (REACH-no) 01-2119511213-58	(C >= 5) Eye Irrit. 2, H319 (C >= 5) Skin Irrit. 2, H315		

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

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

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First-aid measures general

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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 : Take off contaminated clothing. Wash skin with plenty of water. Wash contaminated

clothing before reuse.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if First-aid measures after eye contact

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 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. Powder. Water haze. 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 will generate poisonous 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. Provide local exhaust or

general room ventilation. May be dangerously slippery if spilled. Keep public away from

danger area.

6.1.1. For non-emergency personnel

Protective equipment : Equip cleanup crew with proper protection.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Dam up the liquid spill.

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. Wash clothing before re-using. 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. Incompatible materials : Freezing. heat. Sources of ignition.

Maximum storage period : 60 months

Heat and ignition sources : Keep away from ignition sources. Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

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

: Keep only in original container. Special rules on packaging

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Full Metal	Full Metal			
EU	IOELV TWA (mg/m³)	5 mg/m³ 8h		
Belgium	Limit value (mg/m³)	5 mg/m³ 8h		
Belgium	Short time value (mg/m³)	10 mg/m³ 15min		
Bulgaria	OEL TWA (mg/m³)	5 mg/m³ 8h		
Denmark	Grænseværdie (langvarig) (mg/m³)	1 mg/m³		
Finland	HTP-arvo (8h) (mg/m³)	5 mg/m³		
France	VME (mg/m³)	5 mg/m³ 8h		
France	VLE (mg/m³)	10 mg/m³ 15min		
Hungary	CK-érték	5 mg/m³		
Ireland	OEL (8 hours ref) (mg/m³)	5 8h		
Latvia	OEL TWA (mg/m³)	5 mg/m³ 8h		
Netherlands	Grenswaarde TGG 8H (mg/m³)	5 mg/m³		
Portugal	OEL TWA (mg/m³)	5 mg/m³ 8h		
Portugal	OEL STEL (mg/m³)	10 mg/m³		
Romania	OEL TWA (mg/m³)	5 mg/m³ 8h		
Romania	OEL STEL (mg/m³)	10 mg/m³ 15min		
Spain	VLA-ED (mg/m³)	5 mg/m³ 8h		
Spain	VLA-EC (mg/m³)	10 mg/m³ 15min		
Sweden	nivågränsvärde (NVG) (mg/m³)	1 mg/m³		
Sweden	kortidsvärde (KTV) (mg/m³)	3 mg/m³		
Norway	Grenseverdier (AN) (mg/m³)	1 mg/m³		
USA - ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ 8h		
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³		
Ethylhexylique (2-) Alcool	(104-76-7)			
France	VME (ppm)	50 ppm		
France	VLE (ppm)	100 ppm		

8.2. Exposure controls

Personal protective equipment:

Protective goggles. Gloves.

Hand protection:							
Safety gloves. EN 374							
Туре	ype Material Permeation Thickness (mm) Penetration Standard						
Safety gloves Nitrile rubber (NBR) 6 (> 480 minutes) 3 (> 0.65) EN 374							
Eye protection:							
Safety glasses. EN 166							
Type Use Characteristics Standard							
Safety glasses With side shields EN 166							
Skin and body protection:							
Wear suitable protective clothing							
Respiratory protection:							
Ensure good ventilation of the work station. In case of insufficient ventilation, wear suitable respiratory equipment							

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Personal protective equipment symbol(s):





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: clear.Colour: 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 : > 60 °C

: No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available Log Pow : No data available $: > 20.5 \text{ mm}^2/\text{s} (40^{\circ}\text{C})$ Viscosity, kinematic 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.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Open flame. Sparks. Heat. 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 as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (dermal)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (inhalation)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Ethylhexylique (2-) Alcool (104-76-7)	
LD50 oral rat	3290 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
LC50 inhalation rat (mg/l)	0.89 - 5.3 mg/l/4h

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Skin corrosion/irritation	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Germ cell mutagenicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Carcinogenicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Additional information	: <3% DMSO (IP346)	
Reproductive toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
STOT-single exposure	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Mineral Oil (-)		
LOAEL (oral, rat)	> 5000 mg/kg bodyweight	
LOAEL (dermal, rat/rabbit)	> 5000 mg/kg bodyweight	
LOAEC (inhalation, rat, vapour)	> 5000 mg/l/4h	
LOAEC (inhalation, rat, dust/mist/fume)	> 0.005 mg/l/4h	
STOT repeated expecture	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
· ·		
Aspiration hazard	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008	
Full Metal		
Viscosity, kinematic	> 20.5 mm²/s (40°C)	

	SECTION 12:	Ecologica	I information
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12.1			V		H V
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Ecology - general : Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate (4259-15-8)	
LC50 fish 1	4.4 mg/l (forel)
EC50 other aquatic organisms 1	75 mg/l
EC50 72h algae (1)	410 mg/l

riphenyl phosphite (101-02-0)	
LC50 fish 1	1 - 10
EC50 other aquatic organisms 1	0.94 mg/l
12.2. Persistence and degradability	
triphenyl phosphite (101-02-0)	
Biodegradation 5 - 9.99 %	
12.3. Bioaccumulative potential	
Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate (4259-15-8)	
Log Kow	3.6

triphenyl phosphite (101-02-0)		
	Log Kow	6.62
	40.4 M-1990-19	

12.4. Mobility in soil

No additional information available

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

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.

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

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Product/Packaging disposal recommendations

: Collect all waste in suitable and labelled containers and dispose according to local

legislation.

Additional information

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

Ecology - waste materials

: Do not discharge the product into the environment.

SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN

III accordance with ADR / RID / IMDG / IATA / ADN					
ADR	IMDG	IATA	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment: No	Dangerous for the environment : No	
Clean up even minor leaks or spills if possible without unnecessary risk					

14.6. Special precautions for user

Emergency action in case of accident:

: Stop the engine, No open flames. No smoking, Mark roads and warns other road users, Keep public away from danger area, NOTIFY POLICE AND FIRE BRIGADE **IMMEDIATELY**

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:				
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Full Metal - Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate - Methacrylate Copolymer - Full Metal - Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate - Methacrylate Copolymer			
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Full Metal - Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate - Methacrylate Copolymer			
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Full Metal - Zinc bis [O,O-bis (2-ethylhexyl)] bis: dithiophosphate			

Contains no substance on the REACH candidate list

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Contains no REACH Annex XIV substances Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

France

Occupational diseases : RG 65 - Lésions eczématiformes de mécanisme allergique

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

Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV,

Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Listed in the 12. BlmSchV (Annex I) under:

Quantity threshold for operational area under § 1 para. 1

Sentence 1: Sentence 2:

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

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed: None of the components are listed

: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

SECTION 16: Other information

No additional information available

Indication of changes:				
Section	Changed item	Change	Comments	
1.1	Article number	Removed		
2.2	Precautionary statements (CLP)	Added		
3	Composition/information on ingredients	Modified		
5.1	Suitable extinguishing media	Modified		
7.2	Storage conditions	Modified		
7.2	Incompatible materials	Modified		
7.2	Special rules on packaging	Added		
7.2	Storage area	Added		
7.2	Technical measures	Added		
7.2	Heat and ignition sources	Added		
8.2	Eye protection	Added		
8.2	Hand protection	Added		
9.1	Flash point	Modified		
9.1	Viscosity, kinematic	Modified		
13.1	Sewage disposal recommendations	Added		
13.1	Waste treatment methods	Added		
13.1	Waste disposal recommendations	Modified		
13.1	Additional information	Added		
13.1	Ecology - waste materials	Added		

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Abbreviations and acronyms:		
Abbreviations and acronyms: RID: Regulations Concerning the International Transport of Dangerous Goods by Rail ICAO: International Civil Aviation Organization ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent		

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	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
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.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H350	May cause cancer.	
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.	
EUH208	Contains triphenyl phosphite(101-02-0). May produce an allergic reaction.	

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

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