

Safety Data Sheet

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

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 18/05/2022 Version: 1.0

1.1. Product identifier Trade name Extreme Pressure Grease : Product code : 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Intended for general public : Industrial use, Professional use, Consumer use Main use category Use of the substance/mixture : Lubricant 1.2.2. Uses advised against : No additional information Restrictions on use 1.3. Details of the supplier of the safety data sheet Supplier Supplier Lucas Oil Products UK Ltd Lucas Oil Products Europe Ltd Unit 4 Cunliffe Drive Block 3 Harcourt Centre Llangefni Industrial Estate Harcourt Road LL77 7JA Llangefni Dublin 2 Anglesey - UK Ireland

1.4. Emergency telephone number

Info@LucasOil.co.uk - www.lucasoil.co.uk

Emergency number

T 01248 723 666

: ChemTel

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Country	Organisation/Company	Address	Emergency number	Comment
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

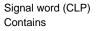
Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP: Classification, Labelling, Packaging.)



: Danger

GHS05

: calcium dodecylbenzenesulphonate, Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts, Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized

GHS07

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Hazard statements (CLP)	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H318 - Causes serious eye damage.
	H412 - Harmful 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.
	P103 - Read carefully and follow all instructions.
	P261 - Avoid breathing mist, spray, vapours.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable
2.3. Other hazards	

Other hazards not contributing to the classification : No additional hazards have been identified.

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

Component	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts (68442-22-8)	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
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)	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

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]
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (Note L)	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6	≈ 74	Carc. Not classified Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	CAS-No.: 68442-22-8 EC-No.: 270-478-5	5 - <10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized	CAS-No.: 72030-25-2 EC-No.: 615-708-0	5 - <10	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
calcium dodecylbenzenesulphonate	CAS-No.: 26264-06-2 EC-No.: 247-557-8	< 4	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 4, H413
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 0018	0.515 – 1.545	Carc. Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 0018	0.9 – 1	Carc. Not classified Asp. Tox. 1, H304

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Specific concentration limits			
Name	Product identifier	Specific concentration limits	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	CAS-No.: 68442-22-8 EC-No.: 270-478-5	(10 ≤C < 12.5) Eye Irrit. 2, H319 (12.5 ≤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- 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. First-aid measures after inhalation : If inhaled and 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 : Wash skin with plenty of water. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy First-aid measures after eye contact to do. Continue rinsing. Immediately call a POISON CENTER/doctor. First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting unless directed to do so by medical personnel. 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: May cause an allergic skin reaction. Skin rash/inflammation. May cause moderate irritation.
Symptoms/effects after eve contact	Causes serious eve burns

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	: Foam. Dry powder. Carbon dioxide. Water spray.		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the substance or mixture			
Fire hazard	: No particular fire or explosion hazard. Burning produces irritating, toxic and noxious fumes.		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Wear fire/flame resistant/retardant clothing.		

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Danger of slipping on leaked or spilled product. Avoid all eye and skin contact and do not breathe vapour and mist.
6.1.1. For non-emergency personnel	
Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures	: Stop leak if safe to do so. Ventilate area.
6.2. Environmental precautions	

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

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- Methods for cleaning up
 : Absorb and/or contain spill with inert material, then place in suitable container. Collect spillage.

 Other information
 : Dispose of materials or solid residues at an authorized site.

 6.4. Reference to other sections
 .

 Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

 SECTION 7: Handling and storage

 7.1. Precautions for safe handling

 Precautions for safe handling

 : Ensure good ventilation of the work station. Wear proper protective equipment. Avoid all eye and skin contact and do not breathe vapour and mist.
- Hygiene measures
 : Do not eat, drink or smoke when using this product. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

 7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions
 : Keep only in the original container. Keep container closed when not in use.

 Incompatible products
 : strong oxidizers.

 Prohibitions on mixed storage
 : Incompatible materials.

 Storage area
 : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Lubricant oil.

SECTION 8: Exposure	controls/personal protection
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8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m ³ 8-h (inhalable)		
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m ³ 8-h (inhalable)		

8.1.2. Recommended monitoring procedures

No data available

8.1.3. Air contaminants formed

No data available

8.1.4. DNEL and PNEC

No data available

8.1.5. Control banding

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Avoid splashing. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection: Long sleeved protective clothing

Hand protection:

Wear suitable gloves. nitrile rubber gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use an approved respirator equipped with oil/mist cartridges. EN 136/140

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent leakage or spillage.

Consumer exposure controls: Keep out of reach of children.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

s.r. information on basic physical and enci		cal properties
Physical state	:	Liquid
Colour	:	Not available
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 explosive limit (UEL)	:	Not available
Flash point	:	237 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
рН	:	Not available
Viscosity, kinematic	:	> 20.5 mm²/s
Solubility	:	Not available
Log Kow	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	Not available
Relative vapour density at 20 °C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable
9.2 Other information		

9.2. Other information

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9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
Acute toxicity (dermal) :	Not classified Not classified Not classified		
LD50 Oral rat > 5000 mg/kg			
LD50 Dermal rabbit	> 2000 mg/kg		
calcium dodecylbenzenesulphonate (26264-06-2)			
LD50 Oral rat	1300 mg/kg		
LD50 Dermal rabbit			
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)			
LD50 Oral rat	> 5000 mg/kg		
LD50 Dermal rabbit	> 2000 mg/kg		
LC50 Inhalation rat	> 5.53 mg/l/4h		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexy	I and iso-Bu) esters, zinc salts (68442-22-8)		
LD50 Oral rat	3600 mg/kg		
LD50 Dermal rabbit	> 20000 mg/kg		
Oxymolybdenum di-2-ethylhexyl phos-phorodithioa	ate, sulfurized (72030-25-2)		
LD50 Oral rat	6.81 ml/kg		
LD50 Dermal rabbit	10 ml/kg		
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)			
LD50 Oral rat	> 5000 mg/kg		
LD50 Dermal rabbit	> 2000 mg/kg		
LC50 Inhalation rat	> 5.53 mg/l/4h		
Skin corrosion/irritation:Serious eye damage/irritation:	Causes skin irritation. Causes serious eye damage.		

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	May cause an allergic skin reaction.
0, 1	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure :	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)
Extreme Pressure Grease	1
Viscosity, kinematic	> 20.5 mm ² /s
11.2. Information on other hazards	
No data available	
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term :	Not classified (Based on available data, the classification criteria are not met)
(acute)	
Hazardous to the aquatic environment, long-term : (chronic)	Harmful to aquatic life with long lasting effects.
Distillates (petroleum), hydrotreated heavy paraffir	nic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)
EC50 crustacea	> 10000 mg/l
Oxymolybdenum di-2-ethylhexyl phos-phorodithio	ate, sulfurized (72030-25-2)
LC50 fish 1	100 mg/l 96 h
EC50 crustacea	100 mg/l 48 h
EC50 72h - Algae [1]	100 mg/l 72 h
Distillates (petroleum), hydrotreated heavy paraffir	nic (DMSO < 3%) (64742-54-7)
EC50 crustacea	> 10000 mg/l
12.2. Persistence and degradability	
Distillates (petroleum), solvent-dewaxed heavy par	raffinic (DMSO < 3%) (64742-65-0)
Persistence and degradability	Not established.
Oxymolybdenum di-2-ethylhexyl phos-phorodithio	ate, sulfurized (72030-25-2)
Persistence and degradability	Not readily biodegradable.
Biodegradation	11 % 28 d
C C C C C C C C C C C C C C C C C C C	11 % 20 U
12.3. Bioaccumulative potential	
Distillates (petroleum), solvent-dewaxed heavy par	
Bioaccumulative potential	Not established.
Phosphorodithioic acid, mixed O,O-bis(2-ethylhex)	/I and iso-Bu) esters, zinc salts (68442-22-8)
Log Pow	1.67
12.4. Mobility in soil No data available	
12.5. Results of PBT and vPvB assessment	
Component	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts (68442-22-8)	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
Distillates (petroleum), hydrotreated heavy paraffinic	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

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No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations
Waste disposal recommendations
Ecology - waste materials
HP Code

Do not dispose of waste into sewer.
Dispose in a safe manner in accordance with local/national regulations.
Avoid release to the environment.
HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

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

III accoluance with ADR / IWDG / IATA / ADN / RID		
14.1. UN number or ID 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
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
ΙΑΤΑ		
Transport hazard class(es) (IATA)	:	Not regulated
ADN		
Transport hazard class(es) (ADN)	:	Not regulated
RID		N
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		

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Not regulated

Transport by sea

Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on	Entry title or description	
3(b)	Extreme Pressure Grease ; Distillates (petroleum), solvent- dewaxed heavy paraffinic (DMSO < 3%) ; calcium dodecylbenzenesulphonate ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized ; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) ; Alcohols, C12-16, ethoxylated	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	
3(c)	Extreme Pressure Grease ; calcium dodecylbenzenesulphonate ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized	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	

Contains no substance on the REACH candidate list

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

15.1.2. National regulations

No data available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts

SECTION 16: Other information Full text of H- and EUH-statements Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4 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

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Full text of H- and EUH-statements		
Carc. Not classified	Carcinogenicity Not classified	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
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.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]			
Skin Irrit. 2	H315	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	Calculation method	
Aquatic Chronic 3	H412	Calculation method	

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.