



Lucas High Performance Assembly Lube
Lucas Synthetic SAE 5W-20 Jr. Dragster Oil
Lucas Marine SAE 20W-50
Lucas Multi-Vehicle Automatic Transmission Fluid
Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 10/05/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Lucas High Performance Assembly Lube
Lucas Synthetic SAE 5W-20 Jr. Dragster Oil
Lucas Marine SAE 20W-50
Lucas Multi-Vehicle Automatic Transmission Fluid
Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid

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
Main use category : Industrial use, Professional use, Consumer use
Use of the substance/mixture : Lubricant

1.2.2. Uses advised against

Restrictions on use : No additional information

1.3. Details of the supplier of the safety data sheet

Supplier

Lucas Oil Products UK Ltd
Unit 4 Cunliffe Drive
Llangefni Industrial Estate
LL77 7JA Llangefni
Anglesey - UK
T 01248 723 666
Info@LucasOil.co.uk - www.lucasoil.co.uk

Supplier

Lucas Oil Products Europe Ltd
Block 3 Harcourt Centre
Harcourt Road
Dublin 2
Ireland
T +44 344 225 5400
info@lucasoil.eu.com www.lucasoil.eu.com

1.4. Emergency telephone number

Emergency number : ChemTel
1-800-255-3924 (USA, Canada, Puerto Rico, US V.I.)
+1-813-248-0585 (International)

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 Not classified
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

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Lucas High Performance Assembly Lube
 Lucas Synthetic SAE 5W-20 Jr. Dragster Oil
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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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



GHS07

Signal word (CLP)

: Warning

Contains

: Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized (Lucas Assembly Lube, Lucas Junior Dragster Oil, Lucas Marine SAE 20W-50); 1-(tert-Dodecylthio)propan-2-ol (Lucas Multi-vehicle Automatic Transmission Oil)

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.
 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.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P273 - Avoid release to the environment.

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS

: 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Unknown hazards to the aquatic environment (CLP)

: Contains 0.31 % of components with unknown hazards to the aquatic environment

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

vPvB: not yet assessed

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
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
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 naphthenic (DMSO < 3%) (64742-52-5)	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
C12-C14 t-alkyl amines (68955-53-3)	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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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), 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	0 - 55	Carc. Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
	REACH-no: 01-2119484627-0018		
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 - 72	Carc. Not classified Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (Note L)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3	0 - 64	Carc. Not classified Asp. Tox. 1, H304
Residual oils (petroleum), solvent refined (DMSO <3%)	CAS-No.: 64742-01-4 EC-No.: 265-101-6 EC Index-No.: 649-459-00-4	0 - 55	Carc. Not classified Asp. Tox. 1, H304
1-Decene, homopolymer, hydrogenated	CAS-No.: 68037-01-4 EC-No.: 212-819-2	0 - 60	Asp. Tox. 1, H304
Dec-1-ene, dimers, hydrogenated	CAS-No.: 68649-11-6	0 – 10	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized	CAS-No.: 72030-25-2 EC-No.: 615-708-0	0 - 4.5	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	CAS-No.: 68442-22-8 EC-No.: 270-478-5	0 - 4.75	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Mineral oil (DMSO <3%)	CAS-No.: mixture	0 – 4	Asp. Tox. 1, H304
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	CAS-No.: 68649-42-3 EC-No.: 272-028-3	0 - 2	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	CAS-No.: 398141-87-2 EC-No.: 800-172-4	0 – 2	Aquatic Chronic 2, H411
Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) (Note L)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170-45-0014	0 – 1.5	Carc. Not classified Asp. Tox. 1, H304
Distillates (petroleum), solvent-refined heavy paraffinic (DMSO <3%) (Note L)	CAS-No.: 64741-88-4 EC-No.: 265-090-8 EC Index-No.: 649-454-00-7	0 - 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. Not classified
Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs.	EC-No.: 471-920-1	0 – 1	Skin Sens. 1B, H317
bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4	0 – 1	Aquatic Chronic 4, H413
1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs.	EC-No.: 482-000-4	0 – 1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Dibutyl phosphite	CAS-No.: 1809-19-4 EC-No.: 217-316-1	0 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS-No.: 41556-26-7 EC-No.: 255-437-1	0.94	Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-(tert-Dodecylthio)propan-2-ol	CAS-No.: 67124-09-8 EC-No.: 266-582-5	0 – 0.5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzene, polypropene derivatives, sulfonated, calcium salts	CAS-No.: polymer	0 – 0.2	Skin Sens. 1B, H317
c14-18 alpha-olefin epoxide, reaction products with boric acid	EC-No.: 939-580-3	0 – 0.2	Skin Sens. 1B, H317
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 1218787-32-6 EC-No.: 620-540-6	0 – 0.2	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phosphoric acid substance with a Community workplace exposure limit (Note B)	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6	0 – 0.2	Skin Corr. 1B, H314
C12-C14 t-alkyl amines	CAS-No.: 68955-53-3 EC-No.: 273-279-1	0 – 0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE Not classified Aquatic Acute 1, H400 Aquatic Chronic 1, H410
dipentene; limonene (Note C)	CAS-No.: 138-86-3 EC-No.: 205-341-0 EC Index-No.: 601-029-00-7	0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (Note B)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	< 0.003	Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Oral), H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

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
Phosphoric acid	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6	(10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Corr. 1B, H314

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Specific concentration limits		
Name	Product identifier	Specific concentration limits
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤ C < 0.6) Eye Irrit. 2, H319 (0.06 ≤ C < 0.6) Skin Irrit. 2, H315 (0.6 ≤ C ≤ 100) Eye Dam. 1, H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C, H314

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note 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.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy 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.
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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.
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6.1.1. For non-emergency personnel

Protective equipment	: Chemical goggles or safety glasses. Wear suitable gloves.
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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.
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

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)
Phosphoric acid (7664-38-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Orthophosphoric acid
IOEL TWA	1 mg/m ³
IOELV STEL (mg/m ³)	2 mg/m ³ 2 mg/m ³
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

8.1.2. Recommended monitoring procedures

No data available

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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):



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

Physical state	: Liquid
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available

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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	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: > 20 mm ² /s @ 40 °C
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

9.2.1. 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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Residual oils (petroleum), solvent refined (DMSO <3%) (64742-01-4)

LD50 Oral rat	> 5000 mg/kg
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Residual oils (petroleum), solvent refined (DMSO <3%) (64742-01-4)	
LD50 Dermal rabbit	> 5000 mg/kg
LC50 Inhalation rat	> 20 mg/l
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
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
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl 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-phorodithioate, sulfurized (72030-25-2)	
LD50 Oral rat	6.81 ml/kg
LD50 Dermal rabbit	10 ml/kg
1-Decene, homopolymer, hydrogenated (68037-01-4)	
LD50 Oral rat	> 5000 mg/kg bodyweight
LD50 Dermal rat	> 2000 mg/kg
LC50 Inhalation rat (dust/mist)	> 5.2 mg/l/4h
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
LD50 Oral rat	26100 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic (DMSO <3%) (64741-88-4)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	2.18 mg/l/4h
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
LD50 Oral rat	> 5000 mg/kg bodyweight
LD50 Dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation rat	> 10.5 mg/l/4h
Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) (64742-52-5)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 5000 mg/kg
LC50 Inhalation rat	> 5.53 mg/l/4h
bis(nonylphenyl)amine (36878-20-3)	
LD50 Oral rat	> 5000 mg/kg

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bis(nonylphenyl)amine (36878-20-3)	
LD50 Dermal rat	> 2000 mg/kg
1-(tert-Dodecylthio)propan-2-ol (67124-09-8)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs.	
LD50 Oral rat	> 2500 mg/kg
LD50 Dermal rat	> 2000 mg/kg
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
LD50 Oral rat	1200 mg/kg female
LD50 oral	1500 mg/kg rat, male
Phosphoric acid (7664-38-2)	
LD50 Oral rat	3500 mg/kg
LD50 Dermal rat	> 1260 mg/kg
C12-C14 t-alkyl amines (68955-53-3)	
LD50 Oral rat	612 mg/kg
LD50 Dermal rat	251 mg/kg
LC50 Inhalation rat [ppm]	157 ppm/4h
Dec-1-ene, dimers, hydrogenated (68649-11-6)	
LD50 Oral rat	> 5000 mg/kg bodyweight
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	< 5 mg/l
LC50 Inhalation rat (dust/mist)	< 5 mg/l/4h
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LD50 Oral rat	2369 (2369 – 3920) mg/kg
dipentene; limonene (138-86-3)	
LD50 Oral rat	> 2000 mg/kg
LD50 Dermal rabbit	> 5000 mg/kg
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	: 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 2.2% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
Skin corrosion/irritation	: Not classified. (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: 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)
dipentene; limonene (138-86-3)	
NOAEL (animal/male, F0/P)	500 (500 – 600) mg/kg

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dipentene; limonene (138-86-3)	
NOAEL (animal/female, F0/P)	500 (500 – 600) mg/kg
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)
dipentene; limonene (138-86-3)	
NOAEL (subacute, oral, animal/male, 28 days)	825 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	1650 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	500 (100 – 600) mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	500 (100 – 600) mg/kg bodyweight
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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Viscosity, kinematic	> 20 mm ² /s @ 40 °C

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.
 Unknown hazards to the aquatic environment (CLP) : Contains 0.31 % of components with unknown hazards to the aquatic environment
 Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)
 Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)	
EC50 crustacea	> 10000 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)	
EC50 crustacea	> 10000 mg/l
Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, 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
1-Decene, homopolymer, hydrogenated (68037-01-4)	
LC50 fish 1	> 750 mg/l
EC50 crustacea	190 mg/l
NOEC (acute)	1000 mg/l

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Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
LC50 fish 1	10 (10 – 35) mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction)
EC50 crustacea	1 (1 – 1.5) mg/l OECD GDL 202 (water accomodated fraction)
NOEC (acute)	10 mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction)
NOEC chronic crustacea	< 1 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic (DMSO <3%) (64741-88-4)	
LC50 fish 1	> 100 mg/l Pimephales promelas 96 hr
ErC50 algae	> 100 mg/l
NOEC chronic crustacea	10 mg/l 21 day long-term Daphnia magna reproductive test
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
LC50 fish 1	> 100 mg/l
Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) (64742-52-5)	
LC50 fish 1	> 100 mg/l
EC50 crustacea	> 10000 mg/l
EC50 other aquatic organisms 1	> 100 mg/l
bis(nonylphenyl)amine (36878-20-3)	
LC50 fish 1	> 100 mg/l
1-(tert-Dodecylthio)propan-2-ol (67124-09-8)	
EC50 crustacea	0.75 mg/l 48 h
EC50 - Crustacea [2]	1.3 mg/l 24 h
NOEC (acute)	0.56 mg/l 48 h Daphnia
1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs.	
LC50 fish 1	> 100 mg/l 96 h
EC50 crustacea	230 mg/l 48 h
Dibutyl phosphite (1809-19-4)	
LC50 fish 1	63.4 mg/l 96 h
EC50 crustacea	20.8 mg/l 48 h
EC50 72h - Algae [1]	14.4 mg/l 72 h
Phosphoric acid (7664-38-2)	
LC50 fish 1	138 mg/kg 96 h Gambusia affinis
EC50 crustacea	> 100 mg/l
C12-C14 t-alkyl amines (68955-53-3)	
LC50 fish 1	1.3 mg/l
EC50 crustacea	2.5 mg/l Calculated
ErC50 algae	0.44 mg/l
NOEC (chronic)	0.078 mg/l

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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
LC50 fish 1	0.97 mg/l 96 h
EC50 crustacea	20 mg/l 24 h
EC50 96h - Algae [1]	0.017 mg/l Source: Ecological Structure Activity Relationships

dipentene; limonene (138-86-3)	
LC50 fish 1	95 mg/l Oncorhynchus mykiss (Pesticide Ecotoxicity Data from EPA)
EC50 crustacea	< 1 mg/l

12.2. Persistence and degradability

Lucas High Performance Assembly Lube Lucas Synthetic SAE 5W-20 Jr. Dragster Oil Lucas Marine SAE 20W-50 Lucas Multi-Vehicle Automatic Transmission Fluid Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid	
Persistence and degradability	May cause long-term adverse effects in the environment.

Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized (72030-25-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	11 % 28 d

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Persistence and degradability	Readily biodegradable.

Distillates (petroleum), solvent-refined heavy paraffinic (DMSO <3%) (64741-88-4)	
Persistence and degradability	Not readily biodegradable.

Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
Persistence and degradability	Not readily biodegradable.

Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) (64742-52-5)	
Persistence and degradability	Not readily biodegradable.

1-(tert-Dodecylthio)propan-2-ol (67124-09-8)	
Biodegradation	5.9 % 28 d

1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs.	
Biodegradation	11 % 28 d

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Biodegradation	38 % 28 d

12.3. Bioaccumulative potential

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts (68442-22-8)	
Log Pow	1.67

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Bioaccumulative potential	Not expected to bioaccumulate.

1-(tert-Dodecylthio)propan-2-ol (67124-09-8)	
Log Pow	4.72 – 6.51

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C12-C14 t-alkyl amines (68955-53-3)	
Bioaccumulative potential	Not expected to bioaccumulate.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)	
Log Pow	0.37
dipentene; limonene (138-86-3)	
BCF - Other aquatic organisms [1]	660

12.4. Mobility in soil

Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) (64742-52-5)	
Mobility in soil	22% partitions to soil.

12.5. Results of PBT and vPvB assessment

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vPvB: not yet assessed	
Component	
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
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 naphthenic (DMSO < 3%) (64742-52-5)	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
C12-C14 t-alkyl amines (68955-53-3)	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

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Other adverse effects : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.
HP Code	: HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. 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

14.1. UN number or ID number

UN-No. (ADR)	: Not regulated
UN-No. (IMDG)	: Not regulated

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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

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. 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

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15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Lucas High Performance Assembly Lube Lucas Synthetic SAE 5W-20 Jr. Dragster Oil Lucas Marine SAE 20W-50 Lucas Multi-Vehicle Automatic Transmission Fluid Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid ; Residual oils (petroleum), solvent refined (DMSO <3%) ; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Oxymolybdenum di-2-ethylhexyl phosphorodithioate, sulfurized ; 1-Decene, homopolymer, hydrogenated ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Distillates (petroleum), solvent-refined heavy paraffinic (DMSO <3%) ; Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) ; Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts ; Sulfonic acids, petroleum, calcium salts ; Distillates (petroleum) hydrotreated heavy naphthenic (DMSO < 3%) ; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; Mineral oil (DMSO <3%) ; Acetamide, 2-hydroxy-, N,N-dicoco alkyl derivs. ; 1-(tert-Dodecylthio)propan-2-ol ; 1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs. ; Dibutyl phosphite ; Benzene, polypropene derivatives, sulfonated, calcium salts ; c14-18 alpha-olefin epoxide, reaction products with boric acid ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; Phosphoric acid ; distillates (petroleum), hydrotreated middle	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)	Lucas High Performance Assembly Lube Lucas Synthetic SAE 5W-20 Jr. Dragster Oil Lucas Marine SAE 20W-50 Lucas Multi-Vehicle Automatic Transmission Fluid Lucas Sure-Shift Semi-Synthetic Automatic Transmission Fluid ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Oxymolybdenum di-2-ethylhexyl phosphorodithioate, sulfurized ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters ; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich ; bis(nonylphenyl)amine ; 1-(tert-Dodecylthio)propan-2-ol ; 1,2-Propanediol, 3-amino, N,N-dicoco alkyl derivs. ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	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

Substances 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: Diphenylamine (122-39-4)

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

Indication of changes:

Original Document.

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Abbreviations and acronyms	
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	WEL: Workplace Exposure Limit

Data sources

: Component Supplier SDSs. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. European Chemicals Agency (ECHA) Registered Substances list. European Standards: Personal Protective Equipment; accessed at: http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personal-protective-equipment/index_en.htm. Internal Company test data. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html. WHMIS: The Workplace Hazardous Materials Information System: Canada's national hazard communication standard.

Full text of H- and EUH-statements	
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
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
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.

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Full text of H- and EUH-statements	
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Corr./Irrit. Not classified	Skin corrosion/irritation Not classified
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE Not classified	Specific target organ toxicity (repeated exposure) Not classified

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Skin Corr./Irrit. Not classified		Expert judgment
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.