



Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 5/17/2022 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 Sprocket and Chain Lube
Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil
Lucas SAE 20W-50 Racing Engine Oil
Lucas Hot Rod & Classic Car Oil SAE 10W-30
Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40
Lucas Hot Rod & Classic Car Oil SAE 20W-50
Lucas Chain Lubricant

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 data available

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
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)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1

H317

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements

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

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



GHS07

Signal word (CLP)

: Warning

Contains

: c14-18 alpha-olefin epoxide, reaction products with boric acid, (Lucas SAE 20W-50 Racing Engine Oil

Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized, (Lucas Sprocket and Chain Lube, Lucas Chain Lubricant, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-30, 10W-40, 20W-50

Maleic anhydride (Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil

Hazard statements (CLP)

: H317 - May cause an allergic skin reaction.

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.

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

Unknown hazards to the aquatic environment (CLP)

: Contains 0.1 % 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

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Contains no PBT/vPvB substances $\geq 0.1\%$ 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

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	5 - 90	Carc. Not classified
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	5	Carc. Not classified Asp. Tox. 1, H304
Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized	CAS-No.: 72030-25-2 EC-No.: 615-708-0	1.5 – 3.75	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
c14-18 alpha-olefin epoxide, reaction products with boric acid	EC-No.: 939-580-3	2	Skin Sens. 1B, H317
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	CAS-No.: 68442-22-8 EC-No.: 270-478-5 REACH-no: 01-2119948548-22	1 - 2	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	CAS-No.: 68649-42-3 EC-No.: 272-028-3	1 - 2	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Mineral oil (DMSO <3%) substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: mixture	< 0.1	Not classified
Diphenylamine substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5	0.09	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,6-di-tert-butyl-4-methylphenol substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 128-37-0 EC-No.: 204-881-4	0.05	Acute Tox. 4 (Oral), H302 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9	<0.02	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372
4-methylpentan-2-ol substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 108-11-2 EC-No.: 203-551-7 EC Index-No.: 603-008-00-8	0.01	Flam. Liq. 3, H226 STOT SE 3, H335
Isopropanol substance with national workplace exposure limit(s) (IE, GB)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	0.001	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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 REACH-no: 01-2119948548-22	(10 ≤C < 12.5) Eye Irrit. 2, H319 (12.5 ≤C ≤ 100) Eye Dam. 1, H318
Maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9	(0.001 ≤C < 100) Skin Sens. 1A, H317
4-methylpentan-2-ol	CAS-No.: 108-11-2 EC-No.: 203-551-7 EC Index-No.: 603-008-00-8	(25 ≤C < 100) STOT SE 3, H335

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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. If you feel unwell, seek medical advice (show the label where possible).
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. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

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Symptoms/effects after skin contact : May cause an allergic skin reaction.

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. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Burning produces irritating, toxic and noxious fumes.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Collect spillage. Minimise generation of dust. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool well ventilated place.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

7.3. Specific end use(s)

Lubricant.

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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)
Mineral oil (DMSO <3%) (mixture)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m ³ 8 h
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	5 mg/m ³ 8 h
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³
4-methylpentan-2-ol (108-11-2)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	100 mg/m ³
OEL (8 hours ref) (ppm)	25 ppm
OEL (15 min ref) (mg/m ³)	160 mg/m ³
OEL (15 min ref) (ppm)	40 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	106 mg/m ³
WEL TWA (ppm)	25 ppm
WEL STEL (mg/m ³)	170 mg/m ³
WEL STEL (OEL STEL) [ppm]	40 ppm
Remark	(Sk)
Diphenylamine (122-39-4)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m ³)	10 mg/m ³
OEL (15 min ref) (mg/m ³)	20 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	10 mg/m ³
WEL STEL (mg/m ³)	20 mg/m ³

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Isopropanol (67-63-0)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 ppm

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 creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

8.2.2.1. Eye and face protection

Eye protection:

In case of splashing or aerosol production: protective goggles. EN 166

8.2.2.2. Skin protection

Hand protection:

In case of repeated or prolonged contact wear gloves. nitrile rubber gloves. EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 136/140. Oil-resistant or oil-proof disposable respirator (R95, R100) (P95, P100)

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber. red.
Appearance	: Clear.
Odour	: petroleum.
Odour threshold	: Not determined
Melting point	: Not applicable
Freezing point	: Not determined
Boiling point	: Not determined
Flammability	: Non flammable.
Explosive properties	: Product is not explosive.
Oxidising properties	: No oxidizing properties.
Explosive limits	: Not available
Lower explosion limit	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
pH	: Not determined
Viscosity, kinematic	: 73.4 – 191.3 mm ² /s @ 40 °C
Viscosity, dynamic	: Not determined
Solubility	: insoluble in water.
Log Kow	: Not available
Log Pow	: Not determined
Vapour pressure	: Not determined
Vapour pressure at 50 °C	: Not available
Density	: Not determined
Relative density	: 0.866 – 0.876
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

Relative evaporation rate (butylacetate=1)	: Not determined
VOC content	: Not determined

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

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Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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 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

Mineral oil (DMSO <3%) (mixture)

LD50 Oral rat > 5000 mg/kg

LD50 Dermal rabbit > 5000 mg/kg

LC50 Inhalation rat > 5000 mg/m³ 4 h

Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized (72030-25-2)

LD50 Oral rat 6.81 ml/kg

LD50 Dermal rabbit 10 ml/kg

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

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

LD50 Oral rat 26100 mg/kg

2,6-di-tert-butyl-4-methylphenol (128-37-0)

LD50 Oral rat 890 mg/kg

LD50 Dermal rat > 2000 mg/kg

4-methylpentan-2-ol (108-11-2)

LD50 Oral rat 2590 mg/kg

LD50 Dermal rabbit 2870 mg/kg

LC50 Inhalation rat > 16000 mg/m³ 4 h

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Isopropanol (67-63-0)	
LD50 Oral rat	5840 mg/kg
LD50 Dermal rabbit	16.4 ml/kg
LC50 Inhalation rat [ppm]	> 10000 ppm/4h
Maleic anhydride (108-31-6)	
LD50 Oral rat	1090 mg/kg
LD50 Dermal rabbit	2620 mg/kg female
Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
Additional information	: 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
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
IARC group	3 - Not classifiable
Diphenylamine (122-39-4)	
IARC group	2B - Possibly carcinogenic to humans
Isopropanol (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
4-methylpentan-2-ol (108-11-2)	
STOT-single exposure	May cause respiratory irritation.
Isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diphenylamine (122-39-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Maleic anhydride (108-31-6)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Viscosity, kinematic	>40 mm ² /s @ 40 °C
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11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 0.1 % of components with unknown hazards to the aquatic environment

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)

EC50 crustacea	> 10000 mg/l
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Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)

LC50 fish 1	> 100 mg/l
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Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized (72030-25-2)

LC50 fish 1	100 mg/l 96 h
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EC50 crustacea	100 mg/l 48 h
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EC50 72h - Algae [1]	100 mg/l 72 h
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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)
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EC50 crustacea	1 (1 – 1.5) mg/l OECD GDL 202 (water accomodated fraction)
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NOEC (acute)	10 mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction)
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NOEC chronic crustacea	< 1 mg/l
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2,6-di-tert-butyl-4-methylphenol (128-37-0)

LC50 fish 1	0.199 mg/l 96 h
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EC50 crustacea	0.48 mg/l 48 h
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EC50 72h - Algae [1]	0.228 mg/l 96 h
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NOEC (acute)	0.15 mg/l 48 h
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Diphenylamine (122-39-4)

LC50 fish 1	4.14 ppm
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EC50 crustacea	2.46 mg/l
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EC50 other aquatic organisms 1	0.36 mg/l
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Isopropanol (67-63-0)

LC50 fish 1	10000 mg/l
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Maleic anhydride (108-31-6)	
LC50 fish 1	75 mg/l
NOEC chronic algae	150 mg/l

12.2. Persistence and degradability

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant	
Persistence and degradability	Not established.
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
Persistence and degradability	Not readily biodegradable.
Oxymolybdenum di-2-ethylhexyl phos-phorodithioate, sulfurized (72030-25-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	11 % 28 d
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Persistence and degradability	Product persists.
Diphenylamine (122-39-4)	
Persistence and degradability	Not established.
Isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant	
Log Pow	Not determined
Bioaccumulative potential	Not established.
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts (68442-22-8)	
Log Pow	1.67
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Bioconcentration factor (BCF REACH)	2500
Log Pow	4.17
Bioaccumulative potential	Expected to bioaccumulate.
4-methylpentan-2-ol (108-11-2)	
Log Pow	1.43
Diphenylamine (122-39-4)	
Bioaccumulative potential	Not established.

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant

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Isopropanol (67-63-0)	
Bioaccumulative potential	Not expected to bioaccumulate.

12.4. Mobility in soil

2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Mobility in soil	low
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.36

12.5. Results of PBT and vPvB assessment

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant	
vPvB: not yet assessed	
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

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Additional information : 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.

SECTION 14: Transport information

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

14.1. UN number or ID number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR

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

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant

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IMDG

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

IATA

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

ADN

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

RID

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

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

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 applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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

Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Lucas Sprocket and Chain Lube, Lucas Semi-Synthetic SAE 20W-50 Racing Engine Oil, Lucas SAE 20W-50 Racing Engine Oil, Lucas Hot Rod & Classic Car Oil SAE 10W-30, Lucas Hot Rod & Classic Car Motor Oil SAE 10W-40, Lucas Hot Rod & Classic Car Oil SAE 20W-50, Lucas Chain Lubricant ; c14-18 alpha-olefin epoxide, reaction products with boric acid ; Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) ; Isopropanol ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; 4-methylpentan-2-ol ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Tris(2-ethylhexyl) orthoborate ; 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 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)	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Tris(2-ethylhexyl) orthoborate ; 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
3(a)	Isopropanol ; 4-methylpentan-2-ol	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 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
40.	Isopropanol ; 4-methylpentan-2-ol	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

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

VOC content : Not determined

15.1.2. National regulations

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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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

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.
	European List of Waste (LoW) code
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
	WEL: Workplace Exposure Limit
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html.

Other information

: None.

Full text of H- and EUH-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1

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Full text of H- and EUH-statements	
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
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. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A

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Full text of H- and EUH-statements	
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Skin Sens. 1	H317	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.