



Lucas Non-Hazardous Products

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 6/21/2022 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 Non-Hazardous Products
Product code :

Other means of identification : Lucas 30 wt. Plus
Lucas 5th Wheel & Slider Lube
Lucas Air Tool Lubricant
Lucas Engine Oil Stop Leak
Lucas Fishing Reel Oil
Lucas Gun Oil
Lucas Heavy Duty Oil Stabilizer
Lucas High Performance SAE 20W-50 Motorcycle Oil
Lucas High Performance SAE 50 Motorcycle Oil
Lucas High Performance SAE 70 Motorcycle Oil
Lucas High Performance Semi-Synthetic SAE 10W-40 ATV/UTV Engine Oil
Lucas High Performance Semi-Synthetic SAE 10W-40 Motorcycle Oil
Lucas High Performance Synthetic Fork Oil Heavy (15 wt)
Lucas High Performance Synthetic Fork Oil Light (5 wt)
Lucas High Performance Synthetic Fork Oil Medium (10 wt)
Lucas High Performance Synthetic SAE 0W-40 Motorcycle Oil
Lucas High Performance Synthetic SAE 10W-30 Motorcycle Oil
Lucas High Performance Synthetic SAE 10W-40 Motorcycle Oil
Lucas High Performance Synthetic SAE 10W-50 Motorcycle Oil
Lucas High Performance Synthetic SAE 20W-50 Motorcycle Oil
Lucas High Performance Synthetic SAE 5W-20 Motorcycle Oil
Lucas High Performance Synthetic SAE 5W-30 Motorcycle Oil
Lucas Hub Oil
Lucas Hydraulic Oil Booster & Stop Leak
Lucas Lead Replacer
Lucas Marine Grease
Lucas Motorcycle Oil Stabilizer
Lucas Primary Chain Case Oil
Lucas Power Steering Stop Leak
Lucas Pure Synthetic Oil Stabilizer
Lucas Red "N" Tacky Grease
Lucas Slick Mist® Ceramic Speed Wax
Lucas Synthetic Marine ATF Type FA
Lucas Synthetic SAE 0W-30 European Motor Oil
Lucas Synthetic SAE 0W-40 European Motor Oil
Lucas Synthetic SAE 5W-20 European Motor Oil
Lucas Synthetic SAE 75W-140 V-Twin Gear Oil
Lucas Synthetic SAE 80W/85W Motorcycle Transmission Oil
Lucas Tool Box Buddy
Lucas Transmission Fix
Lucas Upper Cylinder Lubricant
Lucas White Lithium Grease
Lucas X-TRA Heavy Duty Grease

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 : Lubricants, greases, release products
Automotive Care Products.

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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
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
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

Not classified

Adverse physicochemical, human health and environmental effects

No data available

2.2. Label elements

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

Precautionary statements (CLP) : P102 - Keep out of reach of children.
Unknown acute toxicity (CLP: Classification, : 0.28% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
Labelling, Packaging,.) - SDS : 0.48% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
0.48% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation)

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	(Dust/Mist)
Unknown hazards to the aquatic environment (CLP)	: Contains 4.63 % of components with unknown hazards to the aquatic environment
Child-resistant fastening	: Not applicable
Tactile warning	: Not applicable

2.3. Other hazards

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

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%) 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 - 96	Asp. Tox. 1, H304
1-Decene, homopolymer, hydrogenated	CAS-No.: 68037-01-4 EC-No.: 212-819-2	10 – 70	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	4 - 55	Asp. Tox. 1, H304
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	0.9 - 60	Asp. Tox. 1, H304
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 – 20	Not classified
Dec-1-ene, dimers, hydrogenated	CAS-No.: 68649-11-6	0 – 5	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS-No.: 68584-23-6 EC-No.: 271-529-4	0 – 5	Eye Irrit. 2, H319
Mineral oil (DMSO <3%) substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: mixture	0 - 5	Not classified
Distillates (petroleum), hydrotreated light naphthenic (DMSO <3%) (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2	1 - 5	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 - < 3	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sulfurized isobutylene	CAS-No.: 68511-50-2 EC-No.: 270-943-2	0 - 2	Aquatic Chronic 4, H413
bis(nonylphenyl)amine	CAS-No.: 36878-20-3 EC-No.: 253-249-4	0 - 2	Aquatic Chronic 4, H413
Dibutyl phosphite	CAS-No.: 1809-19-4 EC-No.: 217-316-1	0 - 1.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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. 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

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry or cracked.

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.

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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.

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%) (64742-54-7)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m ³ 8-h (inhalable)
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Mineral oil (DMSO <3%) (mixture)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m ³ 8 h
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Ireland - Occupational Exposure Limits

OEL (8 hours ref) (mg/m ³)	5 mg/m ³ 8 h
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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)
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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:

Either local exhaust or general room ventilation is usually required.

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8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

None under normal use

8.2.2.2. Skin protection

Hand protection:

It is a good industrial hygiene practice to minimize skin contact. nitrile rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Various colours.
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	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 0.847
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

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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

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

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
bis(nonylphenyl)amine (36878-20-3)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rat	> 2000 mg/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
Distillates (petroleum), hydrotreated light naphthenic (DMSO <3%) (64742-53-6)	
LD50 Oral rat	> 5000 mg/kg No signs of toxicity.
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
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
Mineral oil (DMSO <3%) (mixture)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 5000 mg/kg
LC50 Inhalation rat	> 5000 mg/m ³ 4 h

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

LD50 Oral rat	26100 mg/kg
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sulfurized isobutylene (68511-50-2)

LD50 Oral rat	8600 mg/kg
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Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)

LD50 Oral rat	> 5000 mg/kg
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LD50 Dermal rabbit	> 2000 mg/kg
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LC50 Inhalation rat	> 5.53 mg/l/4h
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Dec-1-ene, dimers, hydrogenated (68649-11-6)

LD50 Oral rat	> 5000 mg/kg bodyweight
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LD50 Dermal rabbit	> 2000 mg/kg
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LC50 Inhalation rat	< 5 mg/l
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LC50 Inhalation rat (dust/mist)	< 5 mg/l/4h
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Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS : 0.28% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
0.48% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
0.48% 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 : Not classified (Based on available data, the classification criteria are not met)

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)

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)

Distillates (petroleum), hydrotreated light naphthenic (DMSO <3%) (64742-53-6)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day
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NOAEL (subchronic, oral, animal/male, 90 days)	< 125 mg/kg bodyweight NOAEL for heavy paraffinic distillate aromatic extract could not be identified and is less than 125 mg/kg/day when administered orally.
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 4.63 % 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) : Not classified (Based on available data, the classification criteria are not met)

1-Decene, homopolymer, hydrogenated (68037-01-4)

LC50 fish 1	> 750 mg/l
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EC50 crustacea	190 mg/l
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NOEC (acute)	1000 mg/l
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bis(nonylphenyl)amine (36878-20-3)

LC50 fish 1	> 100 mg/l
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Dibutyl phosphite (1809-19-4)

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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
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)	
EC50 crustacea	> 10000 mg/l
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
LC50 fish 1	> 100 mg/l
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
sulfurized isobutylene (68511-50-2)	
LC50 fish 1	< 1000 mg/l
EC50 crustacea	1000 mg/l
EC50 other aquatic organisms 1	29 (29 – 39) mg/l
ErC50 algae	> 100 mg/l
NOEC (acute)	< 1000 mg/l
NOEC chronic crustacea	1000 mg/l
NOEC chronic algae	10 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)	
EC50 crustacea	> 10000 mg/l

12.2. Persistence and degradability

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Persistence and degradability	Readily biodegradable.
Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) (64742-55-8)	
Persistence and degradability	Not readily biodegradable.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Bioaccumulative potential	Not expected to bioaccumulate.
Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) (64742-65-0)	
Bioaccumulative potential	Not established.
sulfurized isobutylene (68511-50-2)	
Log Pow	> 3

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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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

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

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 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

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

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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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	1-Decene, homopolymer, hydrogenated ; Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated ; Dibutyl phosphite ; Amines, C12-14-alkyl, C6-10-alkyl phosphates ; Distillates (petroleum), hydrotreated light naphthenic (DMSO <3%) ; Distillates (petroleum), solvent-dewaxed heavy paraffinic (DMSO < 3%) ; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) ; Distillates (petroleum), hydrotreated light paraffinic (DMSO <3%) ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) ; Zinc alkyl dithiophosphate ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts ; Distillates (petroleum), solvent-refined light paraffinic (DMSO < 3%) ; Phosphoric acid, mono- and di-C6-10-alkyl esters ; ethylbenzene ; Benzene ; Toluene ; 1,2,4-trimethylbenzene ; 1,2,3-Trimethylbenzene ; cumene ; Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) ; Residual oils (petroleum), solvent refined (DMSO <3%) ; mesitylene; 1,3,5-trimethylbenzene ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Tris(2-ethylhexyl) orthoborate ; Isooctyl alcohol ; Xylene ; Paraffin oils (petroleum), catalytic dewaxed light (DMSO <3%) ; Benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs., para-, sodium salts	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)	bis(nonylphenyl)amine ; Amines, C12-14-alkyl, C6-10-alkyl phosphates ; Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts ; sulfurized isobutylene ; zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate) ; Zinc alkyl dithiophosphate ; Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts ; Reaction products of Benzeneamine, N-phenyl- with nonene (branched) ; Toluene ; 1,2,4-trimethylbenzene ; cumene ; benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters ; mesitylene; 1,3,5-trimethylbenzene ; Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts ; Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich ; Tris(2-ethylhexyl) orthoborate ; Benzenamine, N-phenyl-, reaction products with isobutylene and ,4,4-trimethylpentene ; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; Calcium branched alkyl phenate sulphide (overbased)	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)	ethylbenzene ; Benzene ; Toluene ; 1,2,4-trimethylbenzene ; 1,2,3-	Substances or mixtures fulfilling the

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
	Trimethylbenzene ; cumene ; Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) ; mesitylene; 1,3,5-trimethylbenzene ; Xylene	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.	ethylbenzene ; Benzene ; Toluene ; Propane ; n-Butane ; 1,2,4-trimethylbenzene ; 1,2,3-Trimethylbenzene ; cumene ; Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) ; mesitylene; 1,3,5-trimethylbenzene ; Xylene	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.
72.	Benzene	The substances listed in column 1 of the Table in Appendix 12
28.	Benzene	Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.
29.	Benzene	Substances which are classified as germ cell mutagen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 3 or Appendix 4, respectively.
5.	Benzene	Benzene
48.	Toluene	Toluene

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), Benzene (71-43-2)

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

No data available

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

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Abbreviations and acronyms	
	LD50: Lethal Dose for 50% of the test population
	PBT: Persistent, Bioaccumulative, Toxic
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
	vPvB Very Persistent and Very Bioaccumulative

Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
Manufacturer Information. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. 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.

Full text of H- and EUH-statements	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
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

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.