



Lucas Metal Polish Lucas Safeguard™ Ethanol Fuel Conditioner with Stabilizers

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 5/25/2022 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 Metal Polish
Lucas Safeguard™ Ethanol Fuel Conditioner with Stabilizers
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 : Cleaning agent
Lubricants and additives

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, Inc
302 North Sheridan Street
92878-4067 Corona, California - USA
T (951) 270-0154 - F (951) 270-1902
www.LucasOil.com

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, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Irritation to eyes and skin. Vapours may cause drowsiness and dizziness. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

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



GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

Contains

: Distillates (petroleum), hydrotreated light, Hydrocarbons, C9, aromatics, Solvent naphtha (petroleum), heavy aliph.

Hazard statements (CLP)

: H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P261 - Avoid breathing mist, spray, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

2.3. Other hazards

Other hazards not contributing to the classification : Combustible liquid.

vPvB: not yet assessed

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH 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 light	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	0 - 60	Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Solvent naphtha (petroleum), heavy aliph.	CAS-No.: 64742-96-7 EC-No.: 265-200-4 EC Index-No.: 649-406-00-5	0 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8 EC-No.: 265-149-8 EC Index-No.: 649-422-00-2	0 - 40	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C9, aromatics	CAS-No.: 64742-95-6 EC-No.: 918-668-5	5 - 15	Expl. Not classified Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
			Aquatic Chronic 2, H411
Monoalkylaryl alkoxyate aminated	CAS-No.: EPA ACCN 270032	5 - 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319
1,2,4-trimethylbenzene substance with a Community workplace exposure limit	CAS-No.: 95-63-6 EC-No.: 202-436-9 EC Index-No.: 601-043-00-3	0 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters	CAS-No.: 125643-61-0 EC-No.: 406-040-9 EC Index-No.: 607-530-00-7	0 - 3	Aquatic Chronic 4, H413
mesitylene; 1,3,5-trimethylbenzene substance with a Community workplace exposure limit	CAS-No.: 108-67-8 EC-No.: 203-604-4 EC Index-No.: 601-025-00-5	0 - 3	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411
1,2,3-Trimethylbenzene substance with a Community workplace exposure limit	CAS-No.: 526-73-8 EC-No.: 208-394-8	0 - 0.75	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
cumene substance with a Community workplace exposure limit (Note C)	CAS-No.: 98-82-8 EC-No.: 202-704-5 EC Index-No.: 601-024-00-X	0 - 0.25	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Specific concentration limits		
Name	Product identifier	Specific concentration limits
mesitylene; 1,3,5-trimethylbenzene	CAS-No.: 108-67-8 EC-No.: 203-604-4 EC Index-No.: 601-025-00-5	(25 ≤ C ≤ 100) STOT SE 3, H335

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.

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 medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Risk of aspiration pneumonia. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

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

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Combustible liquid.
Explosion hazard : Vapours are heavier than air and spread above ground. May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses. Cool adjacent structures and containers with water spray to protect and prevent ignition.
Protection during firefighting : 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. Eliminate every possible source of ignition. Ensure adequate ventilation. Use personal protective equipment as required.

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. Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains or the environment. Notify authorities if liquid enters sewers or 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 : Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like cermiculite, sand, or earth to soak up the product and place into a container for later disposal.
Other information : Spilled material may present a slipping hazard.

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 : Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Hygiene measures : Remove contaminated clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed.
Incompatible products : Strong oxidizers.
Heat and ignition sources : Keep away from heat, sparks and flame.
Prohibitions on mixed storage : Incompatible materials.
Storage area : Store in dry, cool, well-ventilated area.

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7.3. Specific end use(s)

Cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

1,2,4-trimethylbenzene (95-63-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1,2,4-Trimethylbenzene
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Mesitylene (Trimethylbenzenes)
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
1,2,3-Trimethylbenzene (526-73-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1,2,3-Trimethylbenzene
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
cumene (98-82-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Phenylpropane (Cumene)
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	10 ppm
IOELV STEL (mg/m ³)	250 mg/m ³
IOELV STEL (ppm)	50 ppm
Notes	Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831

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

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8.1.5. Control banding

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use only in well ventilated areas. Avoid creating mist or spray.

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. EN166

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. EN374

8.2.2.3. Respiratory protection

Respiratory protection:

None under normal use. Where excessive vapour may result, wear approved mask. Organic vapor cartridge EN 12083

8.2.2.4. Thermal hazards

No data available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent contaminated water run-off. Prevent leakage or spillage.

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	: Colourless.
Appearance	: Clear.
Odour	: Hydrocarbons.
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	: > 61 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available

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Viscosity, kinematic	: 0.1 – 3 mm ² /s @ 40 °C
Solubility	: Insoluble in water.
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: < 1 g/cm ³ @ 20 °C
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

Relative evaporation rate (butylacetate=1)	: < 0.1
VOC content	: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Sparks. Open flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May release flammable gases. Hydrocarbon.

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 light (64742-47-8)

LD50 Oral rat	> 15000 mg/kg Source: IUCLID
LD50 Dermal rabbit	> 2000 mg/kg Source: IUCLID
LC50 Inhalation rat (dust/mist)	> 5.2 mg/l Source: IUCLID

Distillates (petroleum), hydrotreated light (64742-47-8)

LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat (dust/mist)	> 5.28 mg/l/4h

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Hydrocarbons, C9, aromatics (64742-95-6)	
LD50 Oral rat	> 6984 mg/kg
1,2,4-trimethylbenzene (95-63-6)	
LD50 Oral rat	3415 mg/kg
LD50 Dermal rat	3440 mg/kg
LD50 Dermal rabbit	> 3160 mg/kg Source: International Uniform Chemical Information Database
LC50 Inhalation rat	10.2 mg/l air Animal: rat, Remarks on results: other:
LC50 Inhalation rat [ppm]	954 ppm
LC50 Inhalation rat (vapours)	18 mg/l Source: Corporate Solution From Thomson Micromedex
mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
LD50 Oral rat	5000 mg/kg
LD50 Dermal rat	> 4 ml/kg
LC50 Inhalation rat	24000 mg/m ³
cumene (98-82-8)	
LD50 Oral rat	4000 mg/kg
LD50 Dermal rabbit	10600 mg/kg
LC50 Inhalation rat	22.1 mg/l
LC50 Inhalation rat [ppm]	4510 ppm/4h
benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0)	
LD50 Oral rat	> 2000 mg/kg
LD50 Dermal rat	> 2000 mg/kg
Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5.28 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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)
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause drowsiness or dizziness.
Distillates (petroleum), hydrotreated light (64742-47-8)	
STOT-single exposure	May cause drowsiness or dizziness.
Hydrocarbons, C9, aromatics (64742-95-6)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
1,2,4-trimethylbenzene (95-63-6)	
STOT-single exposure	May cause respiratory irritation.

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mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
STOT-single exposure	May cause respiratory irritation.
1,2,3-Trimethylbenzene (526-73-8)	
STOT-single exposure	May cause respiratory irritation.
cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
1,2,4-trimethylbenzene (95-63-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	1.8 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
Aspiration hazard	: May be fatal if swallowed and enters airways.
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Viscosity, kinematic	0.1 – 3 mm ² /s @ 40 °C

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.
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) : Toxic to aquatic life with long lasting effects.

Distillates (petroleum), hydrotreated light (64742-47-8)	
LC50 fish 1	2.4 mg/l Source: ECOTOX
Distillates (petroleum), hydrotreated light (64742-47-8)	
LC50 fish 1	> 1 mg/l 96 h
NOEC chronic fish	> 0.01 <= 0.1 mg/l
NOEC chronic crustacea	> 0.01 <= 0.1 mg/l
Hydrocarbons, C9, aromatics (64742-95-6)	
LC50 fish 1	9.22 mg/l 96 h
1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l
LC50 other aquatic organisms 1	3.6 mg/l
EC50 crustacea	6.14 mg/l Source: International Uniform Chemical Information Database
EC50 other aquatic organisms 1	2.356 mg/l
EC50 96h - Algae [1]	2356 mg/l Test organisms (species): other:
mesitylene; 1,3,5-trimethylbenzene (108-67-8)	

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mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
LC50 fish 1	12.52 mg/l
LC50 other aquatic organisms 1	6 mg/l
EC50 other aquatic organisms 1	25 mg/l
1,2,3-Trimethylbenzene (526-73-8)	
LC50 fish 1	2.792 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	2.29 mg/l Source: Ecological Structure Activity Relationships
cumene (98-82-8)	
LC50 fish 1	4.8 mg/l
LC50 - Fish [2]	4.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 crustacea	2.14 mg/l Test organisms (species): Daphnia magna
EC50 other aquatic organisms 1	2.14 mg/l
EC50 72h - Algae [1]	2.01 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	1.29 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	2.01 mg/l Source: ECHA
NOEC (acute)	1.9 mg/l
NOEC (chronic)	0.35 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.38 mg/l Test organisms (species): other: Duration: '28 d'
benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0)	
LC50 fish 1	> 74 mg/l
EC50 crustacea	4.3 mg/l
ErC50 algae	> 3 mg/l
NOEC (acute)	100 mg/l
Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
LC50 fish 1	2 mg/l 96 h
EC50 crustacea	1.4 mg/l 48 h

12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
Hydrocarbons, C9, aromatics (64742-95-6)	
Biodegradation	21 % 28 d
mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % O2 consumption, 192h
cumene (98-82-8)	
Persistence and degradability	May cause long-term adverse effects in the environment.

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benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0)	
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment.
Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	61 % 28 d

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

Distillates (petroleum), hydrotreated light (64742-47-8)	
Log Pow	3.3 – 6 Source: IUCLID
Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.

Distillates (petroleum), hydrotreated light (64742-47-8)	
Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.

1,2,4-trimethylbenzene (95-63-6)	
Log Pow	3.78 Source: National Library of Medicine/Hazardous Substances Data Bank

mesitylene; 1,3,5-trimethylbenzene (108-67-8)	
BCF fish 1	23 – 382 concentration 150ppb
BCF fish 2	42 – 328 concentration 15ppb
Log Pow	3.42

1,2,3-Trimethylbenzene (526-73-8)	
Log Pow	3.7 Source: International Chemical Safety Cards

cumene (98-82-8)	
Log Pow	3.66 Source: HSDB
Bioaccumulative potential	Not established.

benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters (125643-61-0)	
Bioaccumulative potential	Bioaccumulative potential. Not established.

Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
Log Pow	3.3
Bioaccumulative potential	May bioaccumulate.

12.4. Mobility in soil

Lucas Metal Polish Lucas Safeguard™ Ethanol Fuel Conditioner with Stabilizers	
Ecology - soil	No data available.

1,2,3-Trimethylbenzene (526-73-8)	
Mobility in soil	630 Source: National Library of Medicine/Hazardous Substances Data Bank

Solvent naphtha (petroleum), heavy aliph. (64742-96-7)	
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Solvent naphtha (petroleum), heavy aliph. (64742-96-7)

Ecology - soil

Product adsorbs onto the soil.

12.5. Results of PBT and vPvB assessment

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vPvB: not yet assessed

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Do not pierce or burn, even after use. Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty containers.

Ecology - waste materials : Hazardous waste due to toxicity. Emptied container retains vapor and product residue. Avoid release to the environment.

European List of Waste (LoW) code : Waste is not considered hazardous waste.

HP Code : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR) : UN 3082
UN-No. (IMDG) : UN 3082
UN-No. (IATA) : UN 3082
UN-No. (ADN) : UN 3082
UN-No. (RID) : UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.)

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.)

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.)

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.)

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.)

Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.), 9, III, (E)

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.), 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.), 9, III

Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.), 9, III

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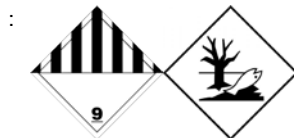
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), hydrotreated light; Solvent naphtha (petroleum), heavy aliph.), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9

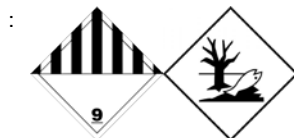
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9

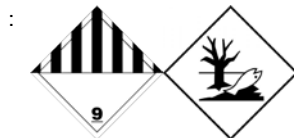
Danger labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9

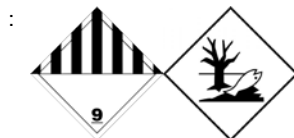
Danger labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9

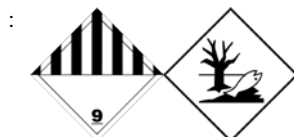
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes

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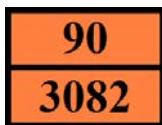
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6
Special provisions (ADR) : 274, 335, 601, 375
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

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Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

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)	Solvent naphtha (petroleum), heavy aliph.	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)	Solvent naphtha (petroleum), heavy aliph.	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(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

VOC content : 0 %

15.1.2. National regulations

All ingredients are listed in the Domestic Substances List (DSL).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
	ATE: Acute Toxicity Estimate
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	CLP: Classification, Labelling, Packaging.
	CAS (Chemical Abstracts Service) number
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	PBT: Persistent, Bioaccumulative, Toxic

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Abbreviations and acronyms

	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
	vPvB Very Persistent and Very Bioaccumulative

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

Other information : None.

Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Expl. Not classified	Explosive Not classified
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic 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
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	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.