

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: LUK1606009

Issue date: 27/06/2016 Revision date: 17/05/2022 Supersedes: 27/06/2016 Version: 2.1

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

1.1. Product identifier

Product form Mixture

Name Lucas Fuel Stabilizer

Product code

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public

: Industrial use, Professional use, Consumer use Main use category

Use of the substance/mixture : Fuel additives

1.2.2. Uses advised against

: No additional information Restrictions on use

1.3. Details of the supplier of the safety data sheet

Lucas Oil Products UK Ltd Lucas Oil Products Europe Ltd Unit 4 Cunliffe Drive **Block 3 Harcourt Centre** Llangefni Industrial Estate Harcourt Road

LL77 7JA Llangefni Dublin 2 Anglesey - UK Ireland

T 01248 723 666 T +44 344 225 5400

Info@LucasOil.co.uk - www.lucasoil.co.uk 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 Specific target organ toxicity - Repeated exposure, Category 1 H372 H304 Aspiration hazard, Category 1 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

No data available

2.2. Label elements

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

Hazard pictograms (CLP: Classification, Labelling,

Packaging.)







GHS07 GHS08

Safety Data Sheet

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

Signal word (CLP) : Danger

Contains : Distillates (petroleum), hydrotreated light, solvent naphtha (petroleum), medium aliph,

Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%), Naphtha (petroleum),

hydrotreated heavy (benzene <0.1%)

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.

H372 - Causes damage to organs through prolonged or repeated exposure.

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. P260 - Do not breathe mist, spray, vapours. P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

Unknown acute toxicity (CLP: Classification, : 0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

Labelling, Packaging.) - SDS 0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation

(Dust/Mist))

Unknown hazards to the aquatic environment (CLP) : Contains 0.78 % of components with unknown hazards to the aquatic environment

Child-resistant fastening : Applicable Tactile warning : Applicable

2.3. Other hazards

Other hazards not contributing to the classification : Combustible liquid.

PBT: not yet assessed vPvB: not yet assessed

Contains no PBT/vPvB substances ≥ 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	
Nonylphenol, ethoxylated (9016-45-9)	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	
Toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Benzene (71-43-2)	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 contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

Component	
Nonylphenol, ethoxylated (9016-45-9)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Safety Data Sheet

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 REACH-no: 01-2119484627- 0018	0 – 60	Carc. Not classified
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 0018	0 – 60	Carc. Not classified Asp. Tox. 1, H304
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
Naphtha (petroleum), hydrotreated heavy (benzene <0.1%) substance with a Community workplace exposure limit (Note P)	CAS-No.: 64742-48-9 EC-No.: 265-150-3 EC Index-No.: 649-327-00-6	0 – 40	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. Not classified Carc. Not classified STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
solvent naphtha (petroleum), medium aliph	CAS-No.: 64742-88-7 EC-No.: 265-191-7 EC Index-No.: 649-405-00-X	5 – 12	STOT RE 1, H372 Asp. Tox. 1, H304
2,6-Di-tert-butyl-4-methylphenol	CAS-No.: 128-37-0 EC-No.: 204-881-4	1 – 4	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nonylphenol, ethoxylated substance listed as REACH Candidate (4-Nonylphenol, branched and linear, ethoxylated) substance listed in REACH Annex XIV (4-Nonylphenol, branched and linear, ethoxylated (substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof)) substance identified as having endocrine disrupting properties	CAS-No.: 9016-45-9 EC-No.: 500-024-6	0.1 – 0.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
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	0.01 – 0.2	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
Xylenes substance with a Community workplace exposure limit (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	0.01 – 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	0.01 – 0.1	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	0.01 – 0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
ethylbenzene substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	0.002 – 0.024	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Toluene substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	0.002 - 0.004	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
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	0.002 - 0.004	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Benzene substance with a Community workplace exposure limit (Note E (obsolete))	CAS-No.: 71-43-2 EC-No.: 200-753-7 EC Index-No.: 601-020-00-8	0.002 - 0.004	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Naphthalene substance with a Community workplace exposure limit	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2	0.002 – 0.004	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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.

Note E: Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22, R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'. (obsolete)

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.

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

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

Safety Data Sheet

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

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. Call a POISON

CENTER/doctor if you feel unwell. Artificial respiration and/or oxygen if necessary.

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 : Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Rinse mouth.

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

Symptoms/effects : Causes damage to organs through prolonged or repeated exposure.

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.

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. Dry chemical. Foam. 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. Combustible liquid.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

5.3. Advice for firefighters

Precautionary measures fire : Keep away from ignition sources.

Firefighting instructions : Cool adjacent structures and containers with water spray to protect and prevent ignition. Do

not allow run-off from fire fighting to enter drains or water courses.

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.

6.1.1. For non-emergency personnel

Protective equipment : Use personal protective equipment as required. Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. Refer to section 8.2.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Do not discharge into drains or the environment. 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 : Absorb and/or contain spill with inert material, then place in suitable container.

6.4. Reference to other sections

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

17/05/2022 (Revision date) EN (English) 5/26

Safety Data Sheet

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing.

Do not breathe mist, spray, vapours.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Do not eat, drink or smoke when using this product.

Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Do not store near food, foodstuffs, drugs, or potable water

supplies.

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

7.3. Specific end use(s)

Fuel additive.

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/m³ 8-h (inhalable)	
1,2,4-trimethylbenzene (95-63-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	1,2,4-Trimethylbenzene	
IOEL TWA	100 mg/m³	
IOEL TWA [ppm]	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Xylenes (1330-20-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Xylene, mixed isomers, pure	
IOEL TWA	221 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOELV STEL (mg/m³)	442 mg/m³	
IOELV STEL (ppm)	100 ppm	
Notes	Skin	
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/m³	
IOEL TWA [ppm]	20 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	

Safety Data Sheet

	4.0.0 Trimedadle (500.70.0)		
	1,2,3-Trimethylbenzene (526-73-8)		
IOEL TWA IDEN TWA			
Column			
Regulatory reference COMMISSION DIRECTIVE 2000/39/EC ethylbenzene (100-41-4) EU - Indicative Occupational Exposure Limit (IOELT) Local name Ethylbenzene IOEL TWA 442 mg/m³ IOEL WAR [ppm] 100 ppm IOELV STEL (mg/m³) 884 mg/m³ IOELV STEL (ppm) 200 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC DISUITIESE (petroleum), hydrotreated heavy paraffiric (DMSO < 3%) (64742-54-7)	<td></td> <td></td>		
### ### #############################		111	
Ethylbenzene	- '	COMMISSION DIRECTIVE 2000/39/EC	
Local name Ethytbenzene IOEL TWA 442 mg/m³ IOEL TWA (ppm) 100 ppm IOELV STEL (mg/m³) 884 mg/m³ IOELV STEL (ppm) 200 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Distillates (petroleum), hydrotreated heavy paraffimitr (DMSO < 3%) (64742-54-7)			
CDEL TWA (ppm)	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA [ppm] 100 ppm IOELV STEL (mg/m²) 884 mg/m² IOELV STEL (ppm) 200 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Distiliates (petroleum), hydrotreated heavy paraffiric/UMSO < 3%) (64742-54-7)	Local name	Ethylbenzene	
IOELV STEL (mg/m³) 884 mg/m³ IOELV STEL (ppm) 200 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Distiliates (petroleum), hydrotreated heavy paraffin/EUCLV EU - Indicative Occupational Exposure Limit (IOELV Local name (Ppm) 5 mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzene voll) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOELV Coccupational Exposure Limit (Fype 3) IOEL TWA (ppm] 20 ppm IOEL TWA (ppm) 20 ppm IOELV STEL (mg/m³) 29 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOELV TWA (ppm) 192 mg/m³ IOELT WA (ppm) 39 ppm IOELT (ppm) 30 ppm IOELV STEL (mg/m³) 34 mg/m³ IOELV STEL (ppm) 400 ppm <td colsp<="" td=""><td>IOEL TWA</td><td>442 mg/m³</td></td>	<td>IOEL TWA</td> <td>442 mg/m³</td>	IOEL TWA	442 mg/m³
IOELV STEL (ppm) 200 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Distillates (petroleum), hydrotreated heavy paraffirit (DMSO < 3%) (64742-54-7)	IOEL TWA [ppm]	100 ppm	
Notes Skin Regulatory reference COMMISSION DIRECTIVE 2000/39/EC Distillates (petroleum), hydrotreated heavy parafitire (DMSO < 3%) (64742-54-7) EU - Indicative Occupational Exposure Limit (IOELT WA) S mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzene * U-1%) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOELT WA) White spirit Type 3 10ELT WA (ppm) 20 ppm 10ELT WA (ppm) 20 ppm 10ELT STEL (mg/m³) 30 ppm Notes S colspan="2">S colspan=	IOELV STEL (mg/m³)	884 mg/m³	
COMMISSION DIRECTIVE 2000/39/EC Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7) EU - Indicative Occupational Exposure Limit (IOEL) ToELT TWA 5 mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzere = 0.1%) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOEL) Local name White spirit Type 3 IOEL TWA (ppm] 20 ppm IOELV STEL (mg/m³) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA (ppm] 50 ppm IOEL TWA (ppm] 50 ppm IOELV STEL (mg/m²) 384 mg/m² IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC Cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name <td>IOELV STEL (ppm)</td> <td>200 ppm</td>	IOELV STEL (ppm)	200 ppm	
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7) EU - Indicative Occupational Exposure Limit (IOELTWA) 5 mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzene zo1%) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOELTWA [ppm]) Local name White spirit Type 3 IOELTWA [ppm] 20 ppm IOELV STEL (mg/m³) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOELTWA [ppm]) LOELTWA 192 mg/m³ IOELTWA [ppm] 50 ppm IOELT WA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELTWE) Local name 2-Phenylpropane (Cumene)	Notes	Skin	
EU - Indicative Occupational Exposure Limit (IOELTWA) 5 mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzene July's (64742-48-9) EU - Indicative Occupational Exposure Limit (IOELT Local name White spirit Type 3 IOEL TWA [ppm] 20 ppm IOELY STEL (mg/m³) 290 mg/m³ IOELY STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (108-88-3) IOELY STEL (mg/m³) 192 mg/m³ IOELT WA [ppm] 50 ppm IOELT WA [ppm] 50 ppm IOELY STEL (mg/m³) 384 mg/m³ IOELY STEL (mg/m³) 384 mg/m³ IOELY STEL (ppm) 100 ppm Notes Skin (OMMISSION DIRECTIVE 2006/15/EC commen (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (108-82-8) EU - Indicative Occupational Exposure Limit (IOELT Local name Toluene (108-82-8)	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
IOEL TWA 5 mg/m³ 8-h (inhalable) Naphtha (petroleum), hydrotreated heavy (benzene vo.1%) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOEL*) Local name White spirit Type 3 IOEL TWA [ppm] 20 ppm IOELLY STEL (mg/m³) 290 mg/m³ IOELLY STEL (ppm) 50 ppm Notes ScoEL Recommendations EU - Indicative Occupational Exposure Limit (IOEL*) Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA [ppm] 50 ppm IOEL TWA [pmm] 50 ppm IOEL TWA [pmm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference CoMMISSION DIRECTIVE 2006/15/EC Cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL*) Local name 2-Phenylpropane (Cumene)	Distillates (petroleum), hydrotreated heavy paraffini	ic (DMSO < 3%) (64742-54-7)	
Naphtha (petroleum), hydrotreated heavy (benzene <0.1%) (64742-48-9) EU - Indicative Occupational Exposure Limit (IOEL) Local name White spirit Type 3 IOEL TWA [ppm] 20 ppm IOELV STEL (mg/m²) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene 192 mg/m³ IOELT WA [ppm] 50 ppm IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m²) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC currene (98-92-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 0-1% ppm 100 ppm	EU - Indicative Occupational Exposure Limit (IOEL)		
Local name White spirit Type 3 IOEL TWA [ppm] 20 ppm IOELV STEL (mg/m³) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOELT WA [ppm] 50 ppm IOELT STEL (mg/m³) 384 mg/m³ IOELT STEL (mg/m³) 50 ppm IOELT STEL	IOEL TWA	5 mg/m³ 8-h (inhalable)	
IOEL TWA [ppm] 20 ppm FU - Indicative Occupational Exposure Limit (IOEL TWA [ppm]) 20 ppm IOELV STEL (mg/m³) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations FU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA [ppm] 50 ppm IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Naphtha (petroleum), hydrotreated heavy (benzene	<0.1%) (64742-48-9)	
COELTWA [ppm] 20 ppm COELV STEL (mg/m³) 290 mg/m³ COELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOELU Local name Toluene COEL TWA [ppm] 50 ppm COELTWA [ppm] 50 ppm COELTWA [ppm] 50 ppm COELV STEL (mg/m³) 384 mg/m³ COELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC Cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOELU Local name 2-Phenylpropane (Cumene)	EU - Indicative Occupational Exposure Limit (IOEL)		
IOELV STEL (mg/m³) 290 mg/m³ IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 192 mg/m³ IOELT TWA (ppm) 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Local name	White spirit Type 3	
IOELV STEL (ppm) 50 ppm Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA (ppm) 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOEL TWA [ppm]	20 ppm	
Notes Skin. (Year of adoption 2007) Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOELV STEL (mg/m³)	290 mg/m³	
Regulatory reference SCOEL Recommendations Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC tumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOELV STEL (ppm)	50 ppm	
Toluene (108-88-3) EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Notes	Skin. (Year of adoption 2007)	
EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA IOEL TWA [ppm] So ppm IOELV STEL (mg/m³) IOELV STEL (ppm) Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Regulatory reference	SCOEL Recommendations	
Local name Toluene IOEL TWA 192 mg/m³ IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Toluene (108-88-3)		
IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC CUMENE (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA [ppm] 50 ppm IOELV STEL (mg/m³) 384 mg/m³ IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Local name	Toluene	
IOELV STEL (mg/m³) IOELV STEL (ppm) Notes Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOEL TWA	192 mg/m³	
IOELV STEL (ppm) 100 ppm Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOEL TWA [ppm]	50 ppm	
Notes Skin Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOELV STEL (mg/m³)	384 mg/m³	
Regulatory reference COMMISSION DIRECTIVE 2006/15/EC cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	IOELV STEL (ppm)	100 ppm	
cumene (98-82-8) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Notes	Skin	
EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Phenylpropane (Cumene)	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Local name 2-Phenylpropane (Cumene)	cumene (98-82-8)		
	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 100 mg/m³	Local name	2-Phenylpropane (Cumene)	
	IOEL TWA	100 mg/m³	

Safety Data Sheet

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

cumene (98-82-8)		
IOEL TWA [ppm]	10 ppm	
IOELV STEL (mg/m³)	250 mg/m³	
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	
Benzene (71-43-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Benzene	
IOEL TWA	3.25 mg/m³	
IOEL TWA [ppm]	1 ppm	
Notes	Skin	
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)	
EU - Binding Occupational Exposure Limit (BOEL)		
Local name	Benzene	
BOEL TWA	3.25 mg/m³ (Limit value until 5 April 2024) 1.65 mg/m³ (Limit value from 5 April 2024 until 5 April 2026) 0.66 mg/m³ (Limit value from 5 April 2026)	
BOEL TWA [ppm]	1 ppm (Limit value until 5 April 2024) 0.5 ppm (Limit value from 5 April 2024 until 5 April 2026) 0.2 ppm (Limit value from 5 April 2026)	
Notes	Skin (Substantial contribution to the total body burden via dermal exposure possible)	
Regulatory reference	DIRECTIVE (EU) 2022/431 (amending Directive 2004/37/EC)	
EU - Biological Limit Value (BLV)		
Local name	Benzene	
BLV	28 μg/l Parameter: benzene - Medium: blood - Sampling time: immediately end of shift 46 μg/g creatinine Parameter: phenylmercapturic - Medium: urine - Sampling time: end of exposure/shift	
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs	
Naphthalene (91-20-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Naphthalene	
IOEL TWA	50 mg/m³	
IOEL TWA [ppm]	10 ppm	
Notes	(Year of adoption 2010)	
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations	

8.1.2. Recommended monitoring procedures

No data available

8.1.3. Air contaminants formed

No data available

8.1.4. DNEL and PNEC

Safety Data Sheet

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

No data available

8.1.5. Control banding

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Avoid splashing. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. EN166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. nitrile rubber gloves. EN374

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges. 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 : Blue. 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 : 79.4 °C Flash point : Not available Auto-ignition temperature : Not available Decomposition temperature

Safety Data Sheet

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

рΗ : Not available Viscosity, kinematic : 13.3 mm²/s @ 40 °C : Not available Solubility Log Kow : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : 7.089 lb/gal Relative density : 0.851 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 : Not applicable Particle agglomeration state Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat.

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 (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	

Safety Data Sheet

solvent naphtha (petroleum), medium aliph (64742-88-7)		
LD50 Oral rat	> 5000 mg/kg	
LD50 Dermal rat	> 2000 mg/kg	
LD50 Dermal rabbit	> 2000 mg/kg Source: EHCA	
LC50 Inhalation rat	> 5.28 mg/l/4h	
2,6-Di-tert-butyl-4-methylphenol (128-37-0)		
LD50 Oral rat	6000 mg/kg	
LD50 Dermal rabbit	> 2000 mg/kg	
LC50 Inhalation rat (dust/mist)	> 2 mg/l Source: OSHRI GLP toxicity test	
Nonylphenol, ethoxylated (9016-45-9)		
LD50 Oral rat	4290 mg/kg mouse	
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	
Xylenes (1330-20-7)		
LD50 Oral rat	> 3500 mg/kg	
LD50 Dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:	
LC50 Inhalation rat [ppm]	5922 ppm	
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/m³	
ethylbenzene (100-41-4)		
LD50 Oral rat	3500 mg/kg	
LD50 Dermal rabbit	17.8 ml/kg	
LC50 Inhalation rat [ppm]	< 1500 ppm	
Distillates (petroleum), hydrotreated heavy paraffini	ic (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	
Naphtha (petroleum), hydrotreated heavy (benzene <0.1%) (64742-48-9)		
LD50 Oral rat	> 5000 mg/kg	
LD50 Dermal rabbit	> 2000 mg/kg	
LC50 Inhalation rat	> 5610 mg/m³	
LC50 Inhalation rat (dust/mist)	5.61 mg/l/4h	

Safety Data Sheet

Toluene (108-88-3)	
LD50 Oral rat	5580 mg/kg EU Method B.
LD50 Dermal rabbit	> 5000 mg/kg Source: ECHA
LC50 Inhalation rat	> 20 mg/l/4h OECD Guideline 403
LC50 Inhalation rat (vapours)	> 20 mg/l Source: ECHA
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
Benzene (71-43-2)	
LD50 Oral rat	5970 mg/kg OECD Guideline 401 (Acute Oral Toxicity)
LD50 Dermal rabbit	> 9.4 mg/kg OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation rat	43.7 mg/l/4h OECD Guideline 403 (Acute Inhalation Toxicity)
Naphthalene (91-20-3)	
LD50 Oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 Dermal rabbit	2500 mg/kg Source: ChemIDplus
LC50 Inhalation rat	> 0.4 mg/l air Animal: rat, Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Remarks on results: other:
LC50 Inhalation rat (vapours)	> 0.4 mg/l Source: ECHA
Labelling, Packaging.) - SDS Skin corrosion/irritation :	0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 0.78% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist)) Causes skin irritation. Causes serious eye irritation.
Respiratory or skin sensitisation : Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (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
Xylenes (1330-20-7)	
IARC group	3 - Not classifiable
ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
Toluene (108-88-3)	
IARC group	3 - Not classifiable
cumene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
Benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
	I .

Safety Data Sheet

Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
Naphthalene (91-20-3)	
LOAEL (animal/female, F1)	450 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:
STOT-single exposure :	May cause drowsiness or dizziness.
Distillates (petroleum), hydrotreated light (64742-47	7-8)
STOT-single exposure	May cause drowsiness or dizziness.
1,2,4-trimethylbenzene (95-63-6)	
STOT-single exposure	May cause respiratory irritation.
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.
Naphtha (petroleum), hydrotreated heavy (benzene	<0.1%) (64742-48-9)
STOT-single exposure	May cause drowsiness or dizziness.
Toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Causes damage to organs through prolonged or repeated exposure.
solvent naphtha (petroleum), medium aliph (64742-	88-7)
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female
NOAEC (inhalation, rat, vapour, 90 days)	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
NOAEL (oral, rat, 90 days)	25 mg/kg bodyweight/day Digestive, liver, urogenital, kidneys, glandular, thyroids, adrenal gland.
STOT-repeated exposure	May cause damage to organs (liver) through prolonged or repeated exposure.
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)
Xylenes (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)

Safety Data Sheet

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

ethylbenzene (100-41-4)		
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.	
Toluene (108-88-3)	·	
LOAEC (inhalation, rat, gas, 90 days)	1250 ppmv/6h/day	
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day EU Method B.26.	
NOAEC (inhalation, rat, gas, 90 days)	300 ppmv/6h/day OECD Guideline 453	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Benzene (71-43-2)		
LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight/day OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight/day OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
NOAEC (inhalation, rat, gas, 90 days)	30 ppmv/6h/day OECD Guideline 412 / 413	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
Naphthalene (91-20-3)		
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
LOAEC (inhalation, rat, vapour, 90 days)	0.011 mg/l air Animal: rat, Guideline: EPA OPP 82-4 (90-Day Inhalation Toxicity), Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Lucas Fuel Stabilizer		
Viscosity, kinematic	13.3 mm²/s @ 40 °C	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Component	
Nonylphenol, ethoxylated (9016-45-9)	The substance is identified for having endocrine disrupting properties but there is no additional data available

11.2.2. Other information

SECTION 12: Ecological information

12.1. Toxicity

Unknown hazards to the aquatic environment (CLP) : Contains 0.78 % of components with unknown hazards to the aquatic environment Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term

: Toxic to aquatic life with long lasting effects.

(c	hro	nic)	
----	-----	------	--

(CHIOHIC)	
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (KV > 20.5 cSt) (64742-54-7)	
EC50 crustacea > 10000 mg/l	
Distillates (petroleum), hydrotreated light (64742-47-8)	
LC50 fish 1	> 1 mg/l 96 h
NOEC chronic fish	> 0.01 <= 0.1 mg/l

Safety Data Sheet

Distillates (petroleum), hydrotreated light (64742-47-8)			
NOEC chronic crustacea	> 0.01 <= 0.1 mg/l		
solvent naphtha (petroleum), medium aliph (64742-	solvent naphtha (petroleum), medium aliph (64742-88-7)		
LC50 fish 1	2 (2 – 5) mg/l 96 h, Oncorhynchus mykiss		
EC50 crustacea	1.4 mg/l 48 h		
EC50 96h - Algae [1]	0.277 mg/l Source: EPISUITE		
2,6-Di-tert-butyl-4-methylphenol (128-37-0)			
LC50 fish 1	0.199 mg/l		
EC50 crustacea	0.48 mg/l		
EC50 other aquatic organisms 1	0.758 mg/l		
EC50 72h - Algae [1]	> 0.4 mg/l Source: ECHA		
NOEC (acute)	0.15 mg/l		
Nonylphenol, ethoxylated (9016-45-9)			
EC50 crustacea	1.821 mg/l		
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:		
Xylenes (1330-20-7)			
LC50 fish 1	2.6 mg/l Source: ECHA		
EC50 crustacea	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia		
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'		
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)	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		
ethylbenzene (100-41-4)			
LC50 fish 1	5.1 mg/l		
EC50 other aquatic organisms 1	7.7 mg/l		
EC50 72h - Algae [1]	5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)		
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum		

Safety Data Sheet

ethylbenzene (100-41-4)	
EC50 96h - Algae [1]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	7.7 mg/l Test organisms (species): Skeletonema costatum
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (acute)	3.3 mg/l
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
Distillates (petroleum), hydrotreated heavy pa	raffinic (DMSO < 3%) (64742-54-7)
EC50 crustacea	> 10000 mg/l
Naphtha (petroleum), hydrotreated heavy (ber	nzene <0.1%) (64742-48-9)
LC50 fish 1	10 mg/l 96 h
EC50 crustacea	1.4 mg/l 48 h
Toluene (108-88-3)	
LC50 fish 1	5.5 mg/l
EC50 crustacea	3.78 mg/l Source: ECHA
EC50 - Crustacea [2]	3.78 mg/l
ErC50 algae	134 mg/l
LOEC (chronic)	2.77 mg/l
NOEC chronic fish	1.39 mg/l
NOEC chronic crustacea	0.74 mg/l
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'
Benzene (71-43-2)	
LC50 fish 1	5.3 mg/l OECD Guideline 203 (Fish, Acute Toxicity Test)
EC50 crustacea	10 mg/l OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC50 72h - Algae [1]	29 mg/l Source: NITE
ErC50 algae	100 mg/l OECD Guideline 201 (Alga, Growth Inhibition Test)
LOEC (chronic)	1.6 mg/l 32 d
NOEC chronic crustacea	3 mg/l

Safety Data Sheet

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

Naphthalene (91-20-3)	
LC50 fish 1	1.6 mg/l
LC50 - Fish [2]	1 (1 – 6.5) mg/l Pimpephales promelas
EC50 crustacea	2.16 mg/l
EC50 other aquatic organisms 1	33 mg/l
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 mg/l
NOEC (chronic)	0.59 mg/l Test organisms (species): Daphnia pulex Duration: '125 d'

12.2. Persistence and degradability

Lucas Fuel Stabilizer		
Persistence and degradability	May cause long-term adverse effects in the environment.	
solvent naphtha (petroleum), medium aliph (64742-88-7)		
Biodegradation	58.6 % 28 d	
2,6-Di-tert-butyl-4-methylphenol (128-37-0)	2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment.	
Nonylphenol, ethoxylated (9016-45-9)		
Persistence and degradability	Readily biodegradable.	
mesitylene; 1,3,5-trimethylbenzene (108-67-8)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	0 % O2 consumption, 192h	
ethylbenzene (100-41-4)		
Persistence and degradability	Not established.	
Naphtha (petroleum), hydrotreated heavy (benzene <0.1%) (64742-48-9)		
Biodegradation	61 % 28 d	
Toluene (108-88-3)		
Persistence and degradability	Readily biodegradable.	
cumene (98-82-8)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
Benzene (71-43-2)		
Persistence and degradability	Readily biodegradable.	

12.3. Bioaccumulative potential

Lucas Fuel Stabilizer	
Bioaccumulative potential	Not established.
Distillates (petroleum), hydrotreated light (64742-47-8)	
Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.
solvent naphtha (petroleum), medium aliph (64742-88-7)	
Log Pow	3.3 – 6 Source: IUCLID

Safety Data Sheet

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

2,6-Di-tert-butyl-4-methylphenol (128-37-0)		
Log Pow	5.2	
Bioaccumulative potential	This product is not bioaccumulating.	
Nonylphenol, ethoxylated (9016-45-9)		
Log Pow	3.7 estimated	
Bioaccumulative potential	Not expected to bioaccumulate.	
1,2,4-trimethylbenzene (95-63-6)		
Log Pow	3.78 Source: National Library of Medicine/Hazardous Substances Data Bank	
Xylenes (1330-20-7)		
BCF fish 1	1.3 mg/l	
Log Pow	3.15 Source: HSDB	
Bioaccumulative potential	Not expected to bioaccumulate.	
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	
ethylbenzene (100-41-4)		
Log Pow	3.15 Source: HSDB	
Bioaccumulative potential	Not established.	
Toluene (108-88-3)		
Bioconcentration factor (BCF REACH)	90	
Log Pow	2.73 Source: HSDB	
Log Kow	2.73	
cumene (98-82-8)		
Log Pow	3.66 Source: HSDB	
Bioaccumulative potential	Not established.	
Benzene (71-43-2)		
BCF fish 1	3.5 – 4.4	
Bioconcentration factor (BCF REACH)	0	
Log Pow	1.83	
Naphthalene (91-20-3)	Naphthalene (91-20-3)	
BCF fish 1	≥ 427 (427 – 1158)	
Log Pow	3.3 Source: hsbd	
12.4 Mobility in soil		

12.4. Mobility in soil

Lucas Fuel Stabilizer	
Ecology - soil	No data available.

Safety Data Sheet

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

2,6-Di-tert-butyl-4-methylphenol (128-37-0)		
Ecology - soil Absorbs to soil particles and will not be mobile.		
1,2,3-Trimethylbenzene (526-73-8)		
Mobility in soil 630 Source: National Library of Medicine/Hazardous Substances Data Bank		

12.5. Results of PBT and vPvB assessment

Lucas Fuel Stabilizer		
PBT: not yet assessed		
vPvB: not yet assessed		
Component		
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) (64742-54-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Nonylphenol, ethoxylated (9016-45-9)	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	
Toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Benzene (71-43-2)	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

Component	
Nonylphenol, ethoxylated (9016-45-9)	The substance is identified for having endocrine disrupting properties but there is no additional data available

12.7. Other adverse effects

Additional information : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Hazardous waste due to toxicity.

European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste

Catalogue (EWC) should be used.

HP Code : 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. (Petroleum distillates)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates)
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates)
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates)

17/05/2022 (Revision date) EN (English) 19/26

Safety Data Sheet

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

Proper Shipping Name (RID)

Transport document description (ADR)

Transport document description (IMDG)

Transport document description (IATA)

Transport document description (ADN)

Transport document description (RID)

14.3. Transport hazard class(es)

Transport hazard class(es) (ADR) Danger labels (ADR)

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates)

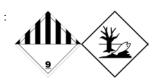
: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III, (E)

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III, MARINE POLLUTANT

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III

: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III



9

9

IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG) 9



IATA

Transport hazard class(es) (IATA) : 9 9 Danger labels (IATA)



ADN

Transport hazard class(es) (ADN) : 9 9 Danger labels (ADN)



RID

Transport hazard class(es) (RID) : 9 : 9 Danger labels (RID)



14.4. Packing group

Safety Data Sheet

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

Packing group (ADR) : 111 Packing group (IMDG) : 111 Packing group (IATA) : 111 Packing group (ADN) Ш Packing group (RID) Ш

14.5. Environmental hazards

Dangerous for the environment : Yes Marine pollutant Yes

No supplementary information available Other information

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M6

Special provisions (ADR) 274, 335, 601, 375

Limited quantities (ADR) 51 Excepted quantities (ADR) : E1

: P001, IBC03, LP01, R001 Packing instructions (ADR)

: PP1 Special packing provisions (ADR) : MP19 Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) : T4 Portable tank and bulk container special provisions : TP1, TP29

(ADR)

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 : CV13

and handling (ADR)

Hazard identification number (Kemler No.) 90 :

Orange plates

90 3082

Α

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)

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

: A97, A158, A197 Special provisions (IATA)

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

17/05/2022 (Revision date) EN (English) 21/26

Safety Data Sheet

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

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

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 : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

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	
5.	Benzene	Benzene	
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.	
3(a)	Xylenes; 1,2,4- trimethylbenzene; ethylbenzene; 1,2,3- Trimethylbenzene; mesitylene; 1,3,5- trimethylbenzene; Naphtha (petroleum), hydrotreated heavy (benzene <0.1%); Distillates (petroleum), hydrotreated light; Benzene; Toluene; cumene	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	

Safety Data Sheet

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Lucas Fuel Stabilizer; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%); solvent naphtha (petroleum), medium aliph ; Xylenes; 1,2,4- trimethylbenzene; ethylbenzene; nesitylene; 1,3,5- trimethylbenzene; Naphtha (petroleum), hydrotreated heavy (benzene <0.1%); Distillates (petroleum), hydrotreated light; Benzene; Toluene; cumene	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	Lucas Fuel Stabilizer; 1,2,4-trimethylbenzene; mesitylene; 1,3,5- trimethylbenzene; Naphtha (petroleum), hydrotreated heavy (benzene <0.1%); Distillates (petroleum), hydrotreated light; Toluene; cumene	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
40.	Xylenes; 1,2,4- trimethylbenzene; ethylbenzene; 1,2,3- Trimethylbenzene; mesitylene; 1,3,5- trimethylbenzene; Naphtha (petroleum), hydrotreated heavy (benzene <0.1%); Distillates (petroleum), hydrotreated light; Benzene; Toluene; cumene	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.
48.	Toluene	Toluene
72.	Benzene	The substances listed in column 1 of the Table in Appendix 12

Contains substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-024-6, CAS 9016-45-9)

Contains REACH Annex XIV substances: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-024-6, CAS 9016-45-9)

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: Nonylphenol, ethoxylated (9016-45-9), 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 chemical safety assessment has been carried out.

Safety Data Sheet

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

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format	Modified	
2	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
3.2	Composition/information on ingredients	Modified	
4.2	Potential adverse human health effects and symptoms	Modified	
11	Toxicological information	Modified	
15.1	Other information, restriction and prohibition regulations	Modified	

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		
	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. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th 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.

Other information

: None.

Full text of H- and EUH-statements		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 1A	Carcinogenicity, Category 1A	

Safety Data Sheet

Full text of H- and EUH-statements			
Carc. 2	Carcinogenicity, Category 2		
Carc. Not classified	Carcinogenicity Not classified		
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.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H340	May cause genetic defects.		
H350	May cause cancer.		
H351	Suspected of causing cancer.		
H361d	Suspected of damaging the unborn child.		
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.		
Muta. 1B	Germ cell mutagenicity, Category 1B		
Muta. Not classified	Germ cell mutagenicity Not classified		
Repr. 2	Reproductive toxicity, Category 2		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
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, 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
STOT RE 1	H372	Calculation method
Asp. Tox. 1	H304	Calculation method

Safety Data Sheet

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

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