



# Lucas Fuel Stabilizer

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Reference number: LUK1606009  
Issue date: 6/27/2016 Revision date: 5/18/2022 Supersedes: 6/27/2016 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  
Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Fuel additives

##### 1.2.2. Uses advised against

Restrictions on use : No additional information

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Lucas Oil Products UK Ltd  
Unit 4 Cunliffe Drive  
Llangefni Industrial Estate  
LL77 7JA Llangefni  
Anglesey - UK  
T 01248 723 666  
[Info@LucasOil.co.uk](mailto:Info@LucasOil.co.uk) - [www.lucasoil.co.uk](http://www.lucasoil.co.uk)

##### Supplier

Lucas Oil Products Europe Ltd  
Block 3 Harcourt Centre  
Harcourt Road  
Dublin 2  
Ireland  
T +44 344 225 5400  
[info@lucasoil.eu.com](mailto:info@lucasoil.eu.com) [www.lucasoil.eu.com](http://www.lucasoil.eu.com)

#### 1.4. Emergency telephone number

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

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Llandough	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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
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

No data available

#### 2.2. Label elements

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

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



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, Labelling, Packaging.) - SDS	: 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))
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  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

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
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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-0018	0 – 60	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 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	Asp. Tox. 1, H304 STOT RE 1, H372
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 [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])	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

# Lucas Fuel Stabilizer

## 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]
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			
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 (Note C) 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 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315
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

# Lucas Fuel Stabilizer

## 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]
			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 harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Note P: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

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. 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.
-----------------------------	------------------------------------

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

- 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.

### 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

2,6-Di-tert-butyl-4-methylphenol (128-37-0)	
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
1,2,4-trimethylbenzene (95-63-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1,2,4-Trimethylbenzene

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
IOEL TWA	100 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
<b>Xylenes (1330-20-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	100 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup> (Sk)
WEL TWA (ppm)	50 ppm (Sk) 650 ppm (methyl hippuric acid/mol creatinine in urine, Post shift)
WEL STEL (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup> (Sk)
WEL STEL (OEL STEL) [ppm]	100 ppm (Sk)
<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Mesitylene (Trimethylbenzenes)
IOEL TWA	100 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	1,2,3-Trimethylbenzene
IOEL TWA	100 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
<b>ethylbenzene (100-41-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Ethylbenzene
IOEL TWA	442 mg/m <sup>3</sup>
IOEL TWA [ppm]	100 ppm
IOELV STEL (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
IOELV STEL (ppm)	200 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	100 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	884 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	200 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m <sup>3</sup> )	552 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	125 ppm
Remark	(Sk)
<b>Distillates (petroleum), hydrotreated heavy paraffinic (DMSO &lt; 3%) (64742-54-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup> 8-h (inhalable)
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	White spirit Type 3
IOEL TWA [ppm]	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	290 mg/m <sup>3</sup>



# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
IOELV STEL (ppm)	50 ppm
Notes	Skin. (Year of adoption 2007)
Regulatory reference	SCOEL Recommendations
<b>Toluene (108-88-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Toluene
IOEL TWA	192 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
IOELV STEL (ppm)	100 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	50 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	100 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup>
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	100 ppm
Remark	(Sk)
<b>cumene (98-82-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	2-Phenylpropane (Cumene)
IOEL TWA	100 mg/m <sup>3</sup>
IOEL TWA [ppm]	10 ppm
IOELV STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
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
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	20 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	50 ppm

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>cumene (98-82-8)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
WEL TWA (ppm)	25 ppm
WEL STEL (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	50 ppm
Remark	(Sk)
<b>Benzene (71-43-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Benzene
IOEL TWA	3.25 mg/m <sup>3</sup>
IOEL TWA [ppm]	1 ppm
Notes	Skin
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
<b>EU - Binding Occupational Exposure Limit (BOEL)</b>	
Local name	Benzene
BOEL TWA	3.25 mg/m <sup>3</sup> (Limit value until 5 April 2024) 1.65 mg/m <sup>3</sup> (Limit value from 5 April 2024 until 5 April 2026) 0.66 mg/m <sup>3</sup> (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)
<b>EU - Biological Limit Value (BLV)</b>	
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
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	1 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	3.25 mg/m <sup>3</sup>
WEL TWA (ppm)	1 ppm
Remark	Carc, Sk
<b>Naphthalene (91-20-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Naphthalene
IOEL TWA	50 mg/m <sup>3</sup>
IOEL TWA [ppm]	10 ppm

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

Naphthalene (91-20-3)	
Notes	(Year of adoption 2010)
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations
<b>Ireland - Occupational Exposure Limits</b>	
OEL (8 hours ref) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	10 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	15 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
WEL TWA (ppm)	10 ppm
WEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	15 ppm
Remark	The UK Advisory Committee on Toxic Substances has expressed concern that, for these OELs, health may not be adequately protected because of doubts that the limit was not soundly-based. These OELs were included in the published UK 2002 list and its 2003 supplement, but are omitted from the published 2005 list.

### 8.1.2. Recommended monitoring procedures

No data available

### 8.1.3. Air contaminants formed

No data available

### 8.1.4. DNEL and PNEC

No data available

### 8.1.5. Control banding

No data available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Avoid 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.

#### 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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

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
Flash point	: 79.4 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 13.3 mm <sup>2</sup> /s @ 40 °C
Solubility	: Not available
Log Kow	: Not available
Vapour pressure	: Not available
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
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No data available

#### 9.2.2. Other safety characteristics

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

### 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

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat (dust/mist)	> 5.28 mg/l/4h
<b>solvent naphtha (petroleum), medium aliph (64742-88-7)</b>	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rat	> 2000 mg/kg
LC50 Inhalation rat	> 5.28 mg/l/4h
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
LD50 Oral rat	6000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
<b>Nonylphenol, ethoxylated (9016-45-9)</b>	
LD50 Oral rat	4290 mg/kg mouse
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50 Oral rat	3415 mg/kg
LD50 Dermal rat	3440 mg/kg
LC50 Inhalation rat [ppm]	954 ppm
<b>Xylenes (1330-20-7)</b>	
LD50 Oral rat	> 3500 mg/kg
<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
LD50 Oral rat	5000 mg/kg
LD50 Dermal rat	> 4 ml/kg
LC50 Inhalation rat	24000 mg/m <sup>3</sup>
<b>ethylbenzene (100-41-4)</b>	
LD50 Oral rat	3500 mg/kg
LD50 Dermal rabbit	17.8 ml/kg
LC50 Inhalation rat [ppm]	< 1500 ppm
<b>Distillates (petroleum), hydrotreated heavy paraffinic (DMSO &lt; 3%) (64742-54-7)</b>	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5.53 mg/l/4h
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
LD50 Oral rat	> 5000 mg/kg

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5610 mg/m <sup>3</sup>
<b>Toluene (108-88-3)</b>	
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
<b>cumene (98-82-8)</b>	
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
<b>Benzene (71-43-2)</b>	
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)
<b>Naphthalene (91-20-3)</b>	
LD50 Oral rat	490 mg/kg
LD50 Dermal rabbit	20 g/kg
LC50 Inhalation rat	> 340 mg/m <sup>3</sup> 1 hour
Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS	: 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))
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)
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
IARC group	3 - Not classifiable
<b>Xylenes (1330-20-7)</b>	
IARC group	3 - Not classifiable
<b>ethylbenzene (100-41-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Toluene (108-88-3)</b>	
IARC group	3 - Not classifiable
<b>cumene (98-82-8)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Benzene (71-43-2)</b>	
IARC group	1 - Carcinogenic to humans

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Naphthalene (91-20-3)</b>	
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.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Toluene (108-88-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>cumene (98-82-8)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
<b>solvent naphtha (petroleum), medium aliph (64742-88-7)</b>	
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
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.
<b>ethylbenzene (100-41-4)</b>	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
<b>Toluene (108-88-3)</b>	
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.
<b>Benzene (71-43-2)</b>	
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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Benzene (71-43-2)</b>	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>Lucas Fuel Stabilizer</b>	
Viscosity, kinematic	13.3 mm <sup>2</sup> /s @ 40 °C

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
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
<b>solvent naphtha (petroleum), medium aliph (64742-88-7)</b>	
LC50 fish 1	2 (2 – 5) mg/l 96 h, Oncorhynchus mykiss
EC50 crustacea	1.4 mg/l 48 h
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
LC50 fish 1	0.199 mg/l
EC50 crustacea	0.48 mg/l
EC50 other aquatic organisms 1	0.758 mg/l
NOEC (acute)	0.15 mg/l
<b>Nonylphenol, ethoxylated (9016-45-9)</b>	
EC50 crustacea	1.821 mg/l
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LC50 fish 1	7.72 mg/l
LC50 other aquatic organisms 1	3.6 mg/l
EC50 other aquatic organisms 1	2.356 mg/l
<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
LC50 fish 1	12.52 mg/l
LC50 other aquatic organisms 1	6 mg/l
EC50 other aquatic organisms 1	25 mg/l
<b>ethylbenzene (100-41-4)</b>	
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)



# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>ethylbenzene (100-41-4)</b>	
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum
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'
<b>Distillates (petroleum), hydrotreated heavy paraffinic (DMSO &lt; 3%) (64742-54-7)</b>	
EC50 crustacea	> 10000 mg/l
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt;0.1%) (64742-48-9)</b>	
LC50 fish 1	10 mg/l 96 h
EC50 crustacea	1.4 mg/l 48 h
<b>Toluene (108-88-3)</b>	
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
<b>cumene (98-82-8)</b>	
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)
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'
<b>Benzene (71-43-2)</b>	
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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Naphthalene (91-20-3)</b>	
LC50 fish 1	0.91 (0.91 – 2.82) mg/l <i>Oncornhynchus mykiss</i>
LC50 - Fish [2]	1 (1 – 6.5) mg/l <i>Pimpephales promelas</i>
EC50 crustacea	1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 mg/l

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

<b>Lucas Fuel Stabilizer</b>	
Bioaccumulative potential	Not established.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Log Kow	2.1 – 5
Bioaccumulative potential	Bioaccumulative potential.
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
Log Pow	5.2
Bioaccumulative potential	This product is not bioaccumulating.

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

<b>Nonylphenol, ethoxylated (9016-45-9)</b>	
Log Pow	3.7 estimated
Bioaccumulative potential	Not expected to bioaccumulate.
<b>Xylenes (1330-20-7)</b>	
BCF fish 1	1.3 mg/l
Bioaccumulative potential	Not expected to bioaccumulate.
<b>mesitylene; 1,3,5-trimethylbenzene (108-67-8)</b>	
BCF fish 1	23 – 382 concentration 150ppb
BCF fish 2	42 – 328 concentration 15ppb
Log Pow	3.42
<b>ethylbenzene (100-41-4)</b>	
Bioaccumulative potential	Not established.
<b>Toluene (108-88-3)</b>	
Bioconcentration factor (BCF REACH)	90
Log Pow	2.73 Source: HSDB
Log Kow	2.73
<b>cumene (98-82-8)</b>	
Bioaccumulative potential	Not established.
<b>Benzene (71-43-2)</b>	
BCF fish 1	3.5 – 4.4
Bioconcentration factor (BCF REACH)	0
Log Pow	1.83
<b>Naphthalene (91-20-3)</b>	
BCF fish 1	≥ 427 (427 – 1158)
<b>12.4. Mobility in soil</b>	
<b>Lucas Fuel Stabilizer</b>	
Ecology - soil	No data available.
<b>2,6-Di-tert-butyl-4-methylphenol (128-37-0)</b>	
Ecology - soil	Absorbs to soil particles and will not be mobile.
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>Lucas Fuel Stabilizer</b>	
PBT: not yet assessed	
vPvB: not yet assessed	
<b>Component</b>	
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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

Component	
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

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 : 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)  
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates)  
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III, (E)  
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III, MARINE POLLUTANT  
Transport document description (IATA) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III  
Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III  
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates), 9, III

### 14.3. Transport hazard class(es)

#### ADR

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



# Lucas Fuel Stabilizer

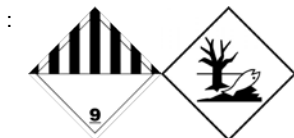
## Safety Data Sheet

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

---

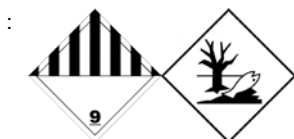
### IMDG

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



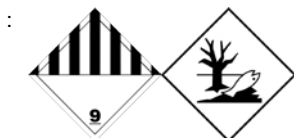
### IATA

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



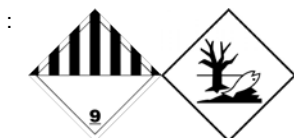
### ADN

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  
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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

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

EAC code : •3Z

### 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

### 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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

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
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
3(b)	Lucas Fuel Stabilizer ; Distillates (petroleum), hydrotreated heavy paraffinic (DMSO < 3%) ; solvent naphtha (petroleum), medium aliph ; 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 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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

Contains substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: 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] (EC 500-024-6, CAS 9016-45-9)

Contains REACH Annex XIV substances: 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] (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 ethoxylates (C<sub>2</sub>H<sub>4</sub>O)<sub>n</sub>C<sub>15</sub>H<sub>24</sub>O (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.

## 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.



# Lucas Fuel Stabilizer

## Safety Data Sheet

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

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 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 2	Carcinogenicity, Category 2
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
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

# Lucas Fuel Stabilizer

## Safety Data Sheet

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

Full text of H- and EUH-statements	
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
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.