

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 7/12/2016 Version: 1.0



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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Lucas Octane Booster  
Product code : 10026, 10725, 40026, 40725

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Additive

##### 1.2.2. Uses advised against

No additional information available

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

Lucas Oil Products, Inc  
302 North Sheridan Street  
92880-2067 Corona, California - USA  
T (951) 270-0154 - F (951) 270-1902  
[GHewgill@lucasoil.com](mailto:GHewgill@lucasoil.com) - [www.LucasOil.com](http://www.LucasOil.com)

#### 1.4. Emergency telephone number

Emergency number : (951) 493-1149 (951) 847-5949 7:00A.M. to 5:00P.M. Monday thru Friday

### SECTION 2: Hazards identification

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

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

Acute toxicity (oral), Category 4	H302
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of hazard classes and H-statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%); Distillates (petroleum), hydrotreated light; Tricarbonyl(methylcyclopentadienyl)manganese; Heavy Aromatic Naphtha Solvent; 1,2,4-trimethylbenzene; Naphthalene

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P261 - Avoid breathing mist, vapours  
P264 - Wash hands, forearms and face thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

P280 - Wear eye protection, protective gloves  
 P301+P310 - If swallowed: Immediately call a poison center or doctor  
 P301+P312 - If swallowed: Call a poison center or doctor  
 P302+P352 - IF ON SKIN: Wash with plenty of water  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P312 - Call a poison center or doctor if you feel unwell  
 P321 - Specific treatment (see First aid measures on this label)  
 P330 - Rinse mouth  
 P331 - Do NOT induce vomiting  
 P332+P313 - If skin irritation occurs: Get medical advice/attention  
 P337+P313 - If eye irritation persists: Get medical advice/attention  
 P362+P364 - Take off contaminated clothing and wash it before reuse  
 P391 - Collect spillage  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%) (Note P)	(CAS No) 64742-48-9 (EC no) 265-150-3 (EC index no) 649-327-00-6	0 - 50	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Distillates (petroleum), hydrotreated light	(CAS No) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	0 - 50	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Tricarbonyl(methylcyclopentadienyl)manganese	(CAS No) 12108-13-3 (EC no) 235-166-5	0.6 - 10	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Heavy Aromatic Naphtha Solvent	(CAS No) 64742-94-5 (EC no) 265-198-5 (EC index no) 649-424-00-3	0.3 - 6	Asp. Tox. 1, H304
1,2,4-trimethylbenzene	(CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3	0.01 - 0.5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Naphthalene	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.01 - 0.5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
mesitylene, 1,3,5-trimethylbenzene	(CAS No) 108-67-8 (EC no) 203-604-4 (EC index no) 601-025-00-5	0.001 - 0.05	Flam. Liq. 3, H226 STOT SE 3, H335 Aquatic Chronic 2, H411

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
mesitylene, 1,3,5-trimethylbenzene	(CAS No) 108-67-8 (EC no) 203-604-4 (EC index no) 601-025-00-5	(C >= 25) STOT SE 3, H335

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-statements: see section 16

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 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. Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention. Artificial respiration and/or oxygen if necessary.
First-aid measures after skin contact	: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
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	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. May result in aspiration into the lungs.

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

Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways. Harmful if swallowed. May damage lungs if swallowed and aspirated.

#### 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 solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible liquid. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

#### 5.3. Advice for firefighters

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	: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe aerosol. Do not breathe vapour. Remove ignition sources.
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##### 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. Eliminate ignition sources.

##### 6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required. Refer to section 8.2.
Emergency procedures	: Ventilate area. Stop leak if safe to do so. Eliminate every possible source of ignition.

#### 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. Do not allow minor leaks or spills to accumulate on walking surfaces. Eliminate all ignition sources.
Methods for cleaning up	: Absorb and/or contain spill with inert material, then place in suitable container. Following recovery, flush area with water. Clean surface thoroughly to remove residual contamination.
Other information	: Spilled material may present a slipping hazard.

#### 6.4. Reference to other sections

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

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 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 breathing mist, vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Ensure good ventilation of the work station. Flammable vapours may accumulate in the container.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

#### 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 acids. Strong bases. Oxidizer.
- Incompatible materials : Direct sunlight. Heat sources.
- 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)

Additive.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Distillates (petroleum), hydrotreated light (64742-47-8)		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)		
Austria	MAK (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (H)
Austria	MAK Short time value (mg/m <sup>3</sup> )	0.4 mg/m <sup>3</sup> max. 4x5 min./Schicht, (H)
Belgium	Limit value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Belgium	Remark (BE)	D (en Mn)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	0.1 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	0.4 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	0.2 ppm
Denmark	Anmærkninger (DK)	H
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min)	0.6 mg/m <sup>3</sup>
Finland	Huomautus (FI)	iho, Mn
France	VME (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
Ireland	Notes (IE)	Sk
Spain	VLA-ED (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Spain	Notes	vía dérmica,
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
United Kingdom	Remark (WEL)	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.
Norway	Grænseværdier (AN) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Norway	Grænseværdier (AN) (ppm)	0.1 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Switzerland	VME (ppm)	0.1 ppm

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>1,2,4-trimethylbenzene (95-63-6)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> max. 4x5 min./Schicht
Austria	MAK Short time value (ppm)	30 ppm max. 4x5 min./Schicht
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	20.3 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	50.75 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
France	VME (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
France	VME (ppm)	20 ppm
France	VLE (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
France	VLE (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	Notes (IE)	IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	20 ppm
Lithuania	Remark (LT)	Ta pati RV, iðreikðta mg/m <sup>3</sup> , yra taikoma kitiems polialkilbenzenams.
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	20 ppm
Spain	Notes	VLI
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	35 ppm
Sweden	Anmärkning (SE)	55
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	20 ppm
<b>Naphthalene (91-20-3)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

Naphthalene (91-20-3)		
EU	IOELV TWA (ppm)	10 ppm
Austria	MAK (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Austria	MAK (ppm)	10 ppm
Austria	Remark (AT)	(III B,H)
Belgium	Limit value (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	15 ppm
Belgium	Remark (BE)	D
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	9.55 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	19.1 ppm
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	20 ppm
Denmark	Anmærkninger (DK)	K
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	1 ppm
Finland	HTP-arvo (15 min)	10 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	2 ppm
France	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.1 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	0.1 ppm
Germany	Remark (TRGS 900)	(gemessen als einatembarer Aerosolanteil)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	15 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	10 ppm
Lithuania	Remark (LT)	K
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	Upozornenie (SK)	(K)
Spain	VLA-ED (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	10 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	15 ppm
Spain	Notes	vía dérmica
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Naphthalene (91-20-3)</b>		
Sweden	kortidsvärde (KTV) (ppm)	15 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	15 ppm
United Kingdom	Remark (WEL)	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.
Norway	Grænseverdier (AN) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Norway	Grænseverdier (AN) (ppm)	10 ppm
Switzerland	VME (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Switzerland	VME (ppm)	10 ppm
<b>mesitylene, 1,3,5-trimethylbenzene (108-67-8)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup> max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	30 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Remark (BE)	(triméthylbenzènes)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	20 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	50 ppm
Czech Republic	Remark (CZ)	I
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	40 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
France	VME (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
France	VME (ppm)	20 ppm
France	VLE (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
France	VLE (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	Notes (IE)	IOELV
Lithuania	IPRV (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	20 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	30 ppm
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>



# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>mesitylene, 1,3,5-trimethylbenzene (108-67-8)</b>		
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	20 ppm
Spain	Notes	VLI
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	35 ppm
Sweden	Anmärkning (SE)	55
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	25 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Merknader (NO)	Trimetylbenzen, alle isomere

### 8.2. Exposure controls

Appropriate engineering controls : Avoid creating mist or spray. 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. Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection:

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

Eye protection:

Chemical goggles or safety glasses. EN166

Skin and body protection:

Wear suitable protective clothing. Impervious clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator. If excessive exposure exists, use only approved air-purifying or supplied air respirator operated in a positive pressure mode. EN 140. EN 136

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
Appearance	: Clear.
Colour	: Yellow.
Odour	: petroleum. Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 76.67 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available



# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

Relative vapour density at 20 °C	: No data available
Relative density	: 0.863
Density	: 7.193 lb/gal
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 3 - 6 cSt @ 100 °C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating may cause an explosion.

### 10.2. Chemical stability

Combustible liquid. Vapour could travel to source of ignition and flash back.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat. Direct sunlight.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizer.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbon. manganese dioxide. metallic oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Not classified. Inhalation:dust,mist: Harmful if inhaled.

ATE CLP (oral)	515.276 mg/kg bodyweight
ATE CLP (dust,mist)	1.500 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 (mg/l)	> 5610 mg/m <sup>3</sup>

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

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.28 mg/l/4h

#### Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)

LD50 oral rat	51.8 mg/kg
LD50 oral	58 mg/kg
LD50 dermal rabbit	140 mg/kg
LD50 dermal	795 mg/kg
LC50 inhalation rat (mg/l)	0.247 mg/l 1 h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.076 mg/l/4h

#### Heavy Aromatic Naphtha Solvent (64742-94-5)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5000 mg/l/4h

#### 1,2,4-trimethylbenzene (95-63-6)

LD50 oral rat	3415 mg/kg
LD50 dermal rat	3440 mg/kg

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LC50 inhalation rat (ppm)	954 ppm
<b>Naphthalene (91-20-3)</b>	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	20 g/kg
LC50 inhalation rat (mg/l)	> 340 mg/m <sup>3</sup> 1 hour
<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 (mg/l)	24000 mg/m <sup>3</sup>
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>Lucas Octane Booster</b>	
Viscosity, kinematic	3 - 6 mm <sup>2</sup> /s @ 100 °C

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt; 0.1%) (64742-48-9)</b>	
LC50 fish 1	10 mg/l 96 h
EC50 Daphnia 1	1.4 mg/l 48 h
<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>Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)</b>	
LC50 fish 1	0.21 mg/l 96 h
EC50 Daphnia 1	0.83 mg/l 48 h
<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>Naphthalene (91-20-3)</b>	
LC50 fish 1	> 0.91 (0.91 - 2.82) mg/l Oncornhynchus mykiss
LC50 fish 2	> 1 (1 - 6.5) mg/l Pimpephales promelas
EC50 Daphnia 1	>= 1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 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

#### 12.2. Persistence and degradability

<b>Lucas Octane Booster</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>Naphtha (petroleum), hydrotreated heavy (benzene &lt; 0.1%) (64742-48-9)</b>	
Biodegradation	61 % 28 d

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Heavy Aromatic Naphtha Solvent (64742-94-5)</b>	
Persistence and degradability	Not rapidly degradable.
Biodegradation	39 %

<b>mesitylene, 1,3,5-trimethylbenzene (108-67-8)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % O2 consumption, 192h

### 12.3. Bioaccumulative potential

<b>Lucas Octane Booster</b>	
Bioaccumulative potential	Not established.

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Log Kow	2.1 - 5
Bioaccumulative potential	Bioaccumulative potential.

<b>Tricarbonyl(methylcyclopentadienyl)manganese (12108-13-3)</b>	
Log Pow	3.4

<b>Naphthalene (91-20-3)</b>	
BCF fish 1	>= 427 (427 - 1158)

<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

### 12.4. Mobility in soil

<b>Lucas Octane Booster</b>	
Ecology - soil	No additional information available.

<b>Heavy Aromatic Naphtha Solvent (64742-94-5)</b>	
Mobility in soil	Migrates to soil.

### 12.5. Results of PBT and vPvB assessment

<b>Lucas Octane Booster</b>	
PBT: not yet assessed	
vPvB: not yet assessed	

### 12.6. Other adverse effects

Additional information : No additional information 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

## SECTION 14: Transport information

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

### 14.1. UN number

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

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha)  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha)  
Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha)  
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha)

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

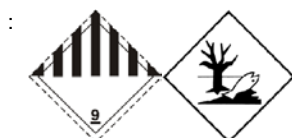
Proper Shipping Name (RID)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha)
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha), 9, III, (E)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha), 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha), 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tricarbonyl(methylcyclopentadienyl)manganese; petroleum distillates/naphtha), 9, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 9

Danger labels (ADR) : 9



#### IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9



#### IATA

Transport hazard class(es) (IATA) : 9

Hazard 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

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830



### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

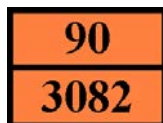
### 14.5. Environmental hazards

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
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
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# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

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
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. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%),Distillates (petroleum), hydrotreated light,Heavy Aromatic Naphtha Solvent are listed

SZW-lijst van mutagene stoffen : Naphtha (petroleum), hydrotreated heavy (benzene < 0.1%),Distillates (petroleum), hydrotreated light,Heavy Aromatic Naphtha Solvent are listed

# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

### Denmark

Class for fire hazard : Class III-1  
Store unit : 50 liter  
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed  
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	European List of Waste (LoW) code
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	NOEC: No Observable Effect Concentration
	PNEC: Predicted No Effect Level
	PBT: Persistent, Bioaccumulative, Toxic
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average

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. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis



# Lucas Octane Booster

## Safety Data Sheet

according to Regulation (EU) 2015/830

STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
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

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

Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Expert judgment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 2	H411	Calculation method

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*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*