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

### 1.1. Product identifier

Product form : Substance  
 Trade name/designation : LIGHT NAPHTHA  
 EC-No. : 265-046-8  
 CAS-No. : 64741-46-4  
 Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use  
 Use of the substance/mixture : Raw material for industry  
 Petroleum  
 Petroleum products

#### 1.2.2. Uses advised against

No data available

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

Trafigura Ventures V.B.V.  
 Evert van de Beekstraat 1-82  
 The Base, Tower B - 5th Floor  
 1118 CL Schiphol - The Netherlands  
 T +31 20 504 1800  
[TrafiguraReach@trafigura.com](mailto:TrafiguraReach@trafigura.com)

### 1.4. Emergency telephone number

Emergency number : +32 3 575 03 30  
 This telephone number is available 24 hours per day, 7 days per week.


Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 1 H224  
 Skin Irrit. 2 H315  
 Muta. 1B H340  
 Carc. 1B H350  
 Repr. 2 H361fd  
 STOT SE 3 H336  
 Asp. Tox. 1 H304  
 Aquatic Chronic 2 H411

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Full text of H statements : see section 16

## 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word :

Danger

Hazard statements (CLP) :

H224 - Extremely flammable liquid and vapour.  
 H304 - May be fatal if swallowed and enters airways.  
 H315 - Causes skin irritation.  
 H336 - May cause drowsiness or dizziness.  
 H340 - May cause genetic defects.  
 H350 - May cause cancer.  
 H361 - Suspected of damaging fertility. Suspected of damaging the unborn child..  
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 - Avoid release to the environment.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting.  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

Extra phrases :

Restricted to professional users

## 2.3. Other hazards


Other hazards :

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).  
 This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : LIGHT NAPHTHA  
 CAS-No. : 64741-46-4  
 EC-No. : 265-046-8

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Naphtha (petroleum), light straight-run	(CAS-No.) 64741-46-4 (EC-No.) 265-046-8 (EC Index) 649-266-00-5	100	Muta. 1B, H340 Carc. 1B, H350 Skin Irrit. 2, H315 Repr. 2, H361fd Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 Flam. Liq. 1, H224
n-Hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index) 601-037-00-0	> 3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Toluene	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index) 601-021-00-3	> 3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
benzene	(CAS-No.) 71-43-2 (EC-No.) 200-753-7 (EC Index) 601-020-00-8	> 0,1	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

**Specific concentration limits:**

Substance name	Product identifier	Specific concentration limits
n-Hexane	(CAS-No.) 110-54-3 (EC-No.) 203-777-6 (EC Index) 601-037-00-0	(C >= 5) STOT RE 2, H373

Full text of H-statements: see section 16

**3.2. Mixtures**

Not applicable


**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

Additional advice	: First aider: Pay attention to self-protection. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Keep at rest. Provide fresh air. Give oxygen or artificial respiration if necessary. Call a physician immediately.
Skin contact	: Take off immediately all contaminated clothing. Wash with plenty of water/. In case of doubt or persistent symptoms, consult always a physician. Wash contaminated clothing before reuse.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Ingestion	: Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Inhalation	: The following symptoms may occur: Vapours may cause drowsiness and dizziness. Mental confusion. Cough. Headache.
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Skin contact : Irritating to skin. The following symptoms may occur: erythema (redness).  
 Eyes contact : Contact with eyes may cause irritation.  
 Ingestion : Harmful: may cause lung damage if swallowed.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.  
 Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : Heating causes rise in pressure with risk of bursting. Vapours may form explosive mixture with air. Vapours are heavier than air and may spread along floors. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. As appropriate. Hydrogen sulfide (H<sub>2</sub>S). Sulphur oxides. Sulphuric acid. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

**5.3. Advice for firefighters**

Firefighting instructions : Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Evacuate personnel to a safe area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**


For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools. As appropriate : Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

**6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8 .

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Dispose of as special waste in compliance with local and national regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate information, instruction and training for operators. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Take precautionary measures against static discharges. Ensure equipment is adequately earthed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take any precaution to avoid mixing with combustibles... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. As appropriate : Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

Hygiene measures : Keep good industrial hygiene. Take off contaminated clothing. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Separate working clothes from town clothes. Keep away from food, drink and animal feedingstuffs.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Storage of flammable liquids. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials listed in section 10. As appropriate : Product may release Hydrogen Sulphide: A specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances.

Packaging materials : Keep only in the original container.


### 7.3. Specific end use(s)

see attached exposure scenario.


## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters


n-Hexane (110-54-3)		
EU	IOELV TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	288 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	80 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>

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<b>n-Hexane (110-54-3)</b>		
Belgium	Limit value (ppm)	20 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	20 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Estonia	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
France	VME (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	5 mg/l Parameter: 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of shift (after hydrolysis)
Gibraltar	8h mg/m <sup>3</sup>	72 mg/m <sup>3</sup>
Gibraltar	8h ppm	20 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	20 ppm
Hungary	AK-érték	72 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	216 mg/m <sup>3</sup> (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Italy	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	20 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	20 ppm
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	20 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>

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<b>n-Hexane (110-54-3)</b>		
Malta	OEL TWA (ppm)	20 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	144 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	20 ppm (indicative limit value)
Romania	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	20 ppm
Slovenia	OEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	50 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	20 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	216 mg/m <sup>3</sup> (calculated)
United Kingdom	WEL STEL (ppm)	60 ppm (calculated)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	108 mg/m <sup>3</sup> (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	30 ppm (value calculated)
Switzerland	MAK (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	1440 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	400 ppm
Australia	TWA (mg/m <sup>3</sup> )	72 mg/m <sup>3</sup>
Australia	TWA (ppm)	20 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	176 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	50 ppm
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - IDLH	US IDLH (ppm)	1100 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	500 ppm
<b>benzene (71-43-2)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup> (measured or calculated in relation to a reference period of eight hours)
EU	IOELV TWA (ppm)	1 ppm (measured or calculated in relation to a reference period of eight hours)

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<b>benzene (71-43-2)</b>		
EU	Notes	Substantial contribution to the total body burden via dermal exposure possible
Austria	TEL TRK (mg/m <sup>3</sup> )	3,2 mg/m <sup>3</sup>
Austria	TEL TRK (ppm)	1 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	1 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	1 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1,6 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	0,5 ppm
Estonia	OEL TWA (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	0,5 ppm
Estonia	OEL STEL (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	3 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup> (all works)
Finland	HTP-arvo (8h) (ppm)	1 ppm (all works)
France	VME (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	1 ppm (restrictive limit)
Greece	OEL TWA (mg/m <sup>3</sup> )	3,19 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	1 ppm
Hungary	MK-érték	3 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	1 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup> (calculated)
Ireland	OEL (15 min ref) (ppm)	3 ppm (calculated)
Italy	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	1 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	1 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	1 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	6 ppm
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	1 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0,7 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	1,6 mg/m <sup>3</sup>





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### benzene (71-43-2)


Portugal	OEL TWA (ppm)	0,5 ppm
Portugal	OEL STEL (ppm)	2,5 ppm
Romania	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	1 ppm
Slovenia	OEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	13 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	4 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup> (manufacturing, commercialization and use restrictions according to REACH)
Spain	VLA-ED (ppm)	1 ppm (manufacturing, commercialization and use restrictions according to REACH)
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1,5 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0,5 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	9 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	3 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	9,75 mg/m <sup>3</sup> (calculated)
United Kingdom	WEL STEL (ppm)	3 ppm (calculated)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	1 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	2 ppm (value calculated)
Switzerland	MAK (mg/m <sup>3</sup> )	1,6 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	0,5 ppm
Australia	TWA (mg/m <sup>3</sup> )	3,2 mg/m <sup>3</sup>
Australia	TWA (ppm)	1 ppm
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	15,5 mg/m <sup>3</sup>
Canada (Quebec)	VECD (ppm)	5 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	1 ppm
USA - ACGIH	ACGIH TWA (ppm)	0,5 ppm
USA - ACGIH	ACGIH STEL (ppm)	2,5 ppm
USA - IDLH	US IDLH (ppm)	500 ppm
USA - NIOSH	NIOSH REL (TWA) (ppm)	0,1 ppm
USA - NIOSH	NIOSH REL (STEL) (ppm)	1 ppm
USA - OSHA	OSHA PEL (TWA) (ppm)	10 ppm 1 ppm
USA - OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1028)
USA - OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm

### Toluene (108-88-3)


EU	IOELV TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
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EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	380 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	77 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Belgium	Short time value	100 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Bulgaria	OEL STEL (ppm)	100 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	100 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	94 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Estonia	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Estonia	OEL STEL (ppm)	100 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	81 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	25 ppm
Finland	HTP-arvo (15 min)	380 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	VME (mg/m <sup>3</sup> )	76,8 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
France	VLE (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

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Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 1,5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of several shifts (after hydrolysis) 1,5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis)
Gibraltar	8h mg/m <sup>3</sup>	192 mg/m <sup>3</sup>
Gibraltar	8h ppm	50 ppm
Gibraltar	Short-term mg/m <sup>3</sup>	384 mg/m <sup>3</sup>
Gibraltar	Short-term ppm	100 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	100 ppm
Hungary	AK-érték	190 mg/m <sup>3</sup>
Hungary	CK-érték	380 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	14 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	100 ppm
Luxembourg	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	384 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> )	200 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>		
Portugal	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value)
Romania	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	100 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	384 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	94 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )	141 mg/m <sup>3</sup> (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Switzerland	MAK (mg/m <sup>3</sup> )	190 mg/m <sup>3</sup>
Switzerland	MAK (ppm)	50 ppm
Switzerland	KZGW (mg/m <sup>3</sup> )	760 mg/m <sup>3</sup>
Switzerland	KZGW (ppm)	200 ppm
Australia	TWA (mg/m <sup>3</sup> )	191 mg/m <sup>3</sup>
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m <sup>3</sup> )	574 mg/m <sup>3</sup>
Australia	STEL (ppm)	150 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	188 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	50 ppm
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - IDLH	US IDLH (ppm)	500 ppm

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<b>Toluene (108-88-3)</b>		
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	560 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA - OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA - OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm


## **8.2. Exposure controls**

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Closed system. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharge. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . NBR (Nitrile rubber). Breakthrough time : > 360 min. Thickness of the glove material: 0,28 - 0,54 mm. Laminate film. Breakthrough time : > 480 min. Thickness of the glove material: 0,06 mm. PVA. Breakthrough time : > 420 min. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.
Eye protection	: Safety glasses (EN166)
Body protection	: Wear suitable coveralls to prevent exposure to the skin
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Filter type: A (EN 141). Half-face mask (DIN EN 140). full face mask (DIN EN 136). Self-contained open-circuit compressed air breathing apparatus (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: liquid.
Colour	: Colourless.
Odour	: petroleum hydrocarbon odour.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: < -20 °C
Freezing point	: No data available
Initial boiling point and boiling range	: 30 - 105 °C

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Flash point	: ≤ 0 °C (closed cup)
Auto-ignition temperature	: 200 - 230 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Vapour pressure	: max 66,7 - 85,3 kPa
Vapour density	: No data available
Relative density	: No data available
Density	: 660 - 720 kg/m <sup>3</sup> (@ 20°C)
Solubility	: No data available. Water: No data available
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: LFL: 0,8-UFL:5,0 vol %

### **9.2. Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Extremely flammable liquid and vapour. Reference to other sections: 10.5.

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

Vapours may form explosive mixture with air. See also section 7. Handling and storage.

### **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7. Handling and storage.

### **10.5. Incompatible materials**

oxidising substances. See also section 7. Handling and storage.

### **10.6. Hazardous decomposition products**

Carbon oxides. As appropriate : Hydrogen sulfide (H<sub>2</sub>S). SO<sub>x</sub>. Sulphuric acid.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

<b>LIGHT NAPHTHA (64741-46-4)</b>	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	> 5610 mg/m <sup>3</sup>
<b>n-Hexane (110-54-3)</b>	
LD50/oral/rat	25 g/kg
LD50/dermal/rabbit	3000 mg/kg



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## LIGHT NAPHTHA

### n-Hexane (110-54-3)

LC50/inhalation/4h/rat (ppm) 48000 ppm/4h

### benzene (71-43-2)

LD50/oral/rat 810 mg/kg

LD50/dermal/rabbit &gt; 8200 mg/kg

LC50/inhalation/4h/rat 44,66 mg/l/4h

### Toluene (108-88-3)

LD50/oral/rat 2600 mg/kg

LD50/dermal/rabbit 12000 mg/kg

LC50/inhalation/4h/rat 12,5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT-single exposure : May cause drowsiness or dizziness.

### LIGHT NAPHTHA (64741-46-4)

LOAEL, male, acute, Inhalation, Rat, systemic 4320 mg/m<sup>3</sup> (1 hours)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : May be fatal if swallowed and enters airways.

### LIGHT NAPHTHA (64741-46-4)

Kinematic viscosity 0,5 - 0,6 mm<sup>2</sup>/s (@ 20°C)

Other adverse effects : carcinogenic. Mutagenetic. Suspected of damaging fertility. Suspected of damaging the unborn child.

Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
Reference to other sections: 4.2.

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### n-Hexane (110-54-3)

LC50 fish 1 2,1 - 2,98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

### benzene (71-43-2)

LC50 fish 1 10,7 - 14,7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])


EC50 Daphnia 1 8,76 - 15,6 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

LC50 fish 2 5,3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

EC50 Daphnia 2 10 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### Toluene (108-88-3)

LC50 fish 1 15,22 - 19,05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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<b>Toluene (108-88-3)</b>	
EC50 Daphnia 1	5,46 - 9,83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	12,6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11,5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

<b>LIGHT NAPHTHA (64741-46-4)</b>	
Persistence and degradability	Not applicable.

### 12.3. Bioaccumulative potential

<b>LIGHT NAPHTHA (64741-46-4)</b>	
Partition coefficient n-octanol/water	No data available

<b>benzene (71-43-2)</b>	
BCF fish 1	3,5 - 4,4
Partition coefficient n-octanol/water	2,1

<b>Toluene (108-88-3)</b>	
Partition coefficient n-octanol/water	2,7

### 12.4. Mobility in soil

<b>LIGHT NAPHTHA (64741-46-4)</b>	
Ecology - soil	No data available.

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods


Product/Packaging disposal recommendations	: Handle with care. Safe handling: see section 7. Handling and storage. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.
Additional information	: Do not puncture or incinerate. Do not burn, or use a cutting torch on the empty drum. Delivery to an approved waste disposal company.
Further ecological information	: Do not allow to enter into surface water or drains.
European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)	: Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. The following Waste Codes are only suggestions: 130702 - petrol 150110 - packaging containing residues of or contaminated by dangerous substances






## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1268	1268	1268	1268	1268
<b>14.2. UN proper shipping name</b>				
PETROLEUM	PETROLEUM	Petroleum distillates,	PETROLEUM	PETROLEUM



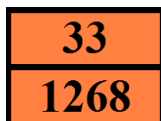
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ADR	IMDG	IATA	ADN	RID
PRODUCTS, N.O.S.	DISTILLATES, N.O.S.	n.o.s.	DISTILLATES, N.O.S.	DISTILLATES, N.O.S.
<b>Transport document description</b>				
UN 1268 PETROLEUM PRODUCTS, N.O.S., 3, I, (D/E)	UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, I	UN 1268 Petroleum distillates, n.o.s., 3, I	UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, I	UN 1268 PETROLEUM DISTILLATES, N.O.S., 3, I
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
I	I	I	I	I
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
ADN : N2.				

**14.6. Special precautions for user**

**- Overland transport**


Classification code (ADR) : F1  
Special provisions : 664  
Limited quantities (ADR) : 500ml  
Excepted quantities (ADR) : E3  
Packing instructions (ADR) : P001  
Mixed packing provisions (ADR) : MP7, MP17  
Portable tank and bulk container instructions (ADR) : T11  
Portable tank and bulk container special provisions (ADR) : TP1, TP8  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : FL  
Transport category (ADR) : 1  
Special provisions for carriage - Operation (ADR) : S2, S20  
Hazard identification number (Kemler No.) : 33  
Orange plates :



Tunnel restriction code : D/E  
EAC code : 3YE

**- Transport by sea**

Limited quantities (IMDG) : 500 ml  
Excepted quantities (IMDG) : E3

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Packing instructions (IMDG) : P001  
 Tank instructions (IMDG) : T11  
 Tank special provisions (IMDG) : TP1, TP8  
 EmS-No. (Fire) : F-E  
 EmS-No. (Spillage) : S-E  
 Stowage category (IMDG) : E  
 Properties and observations (IMDG) : Immiscible with water.

**- Air transport**

PCA Excepted quantities (IATA) : E3  
 PCA Limited quantities (IATA) : Forbidden  
 PCA limited quantity max net quantity (IATA) : Forbidden  
 PCA packing instructions (IATA) : 351  
 PCA max net quantity (IATA) : 1L  
 CAO packing instructions (IATA) : 361  
 CAO max net quantity (IATA) : 30L  
 Special provisions (IATA) : A3  
 ERG code (IATA) : 3H

**- Inland waterway transport**


Classification code (ADN) : F1  
 Limited quantities (ADN) : 500 ml  
 Excepted quantities (ADN) : E3  
 Carriage permitted (ADN) : T  
 Equipment required (ADN) : PP, EX, A  
 Ventilation (ADN) : VE01  
 Number of blue cones/lights (ADN) : 1

**- Rail transport**

Classification code (RID) : F1  
 Excepted quantities (RID) : E3  
 Packing instructions (RID) : P001  
 Mixed packing provisions (RID) : MP7, MP17  
 Portable tank and bulk container instructions (RID) : T11  
 Portable tank and bulk container special provisions (RID) : TP1, TP8  
 Tank codes for RID tanks (RID) : L4BN  
 Transport category (RID) : 1  
 Hazard identification number (RID) : 33

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

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## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	LIGHT NAPHTHA - benzene
3(a) 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	LIGHT NAPHTHA - n-Hexane - benzene - Toluene
3(b) 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	LIGHT NAPHTHA - n-Hexane - benzene - Toluene
3(c) 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	LIGHT NAPHTHA - n-Hexane
5. Benzene	benzene
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	LIGHT NAPHTHA - Naphtha (petroleum), light straight-run - benzene
29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4	LIGHT NAPHTHA - Naphtha (petroleum), light straight-run - benzene
40. 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.	LIGHT NAPHTHA - Naphtha (petroleum), light straight-run - n-Hexane - benzene - Toluene
48. Toluene	Toluene

LIGHT NAPHTHA is not on the REACH Candidate List


LIGHT NAPHTHA is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4510.text	Dangereux pour l'environnement aquatique de catégorie aiguë 1 ou chronique 1.		
4510.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4510.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 20 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	

##### Germany

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Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 3; ID No. 8357)

Risk classification according to VbF : A I - Liquids with a flashpoint below 21°C

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

TA Luft : Organic Substances

#### Netherlands

Waterbezwaarlijkheid : 1 - May cause heritable genetic damage Z(1)

SZW-lijst van kankerverwekkende stoffen : LIGHT NAPHTHA is listed

SZW-lijst van mutagene stoffen : LIGHT NAPHTHA is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 1>; 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 data available

#### SECTION 16: Other information

Indication of changes:

1		Modified	
2		Modified	
5		Modified	
9		Modified	
14		Modified	
15		Modified	
16		Modified	

Abbreviations and acronyms:

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ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
N = Dangerous for the environment
TWA = time weighted average
PBT = persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
T = Toxic
TLV = Threshold limits
STEL = Short term exposure limit
DNEL = Derived No Effect Level
CSR = Chemical Safety Report
EC50 = Median Effective Concentration
UVCB = Substance of unknown or variable composition, complex reaction products or biological material (UVCB)

Sources of key data used to compile the datasheet : European Chemicals Bureau Supplier SDS.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment - chronic hazard category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 1B	Germ cell mutagenicity, hazard categories 1B
Repr. 2	Reproductive toxicity, Hazard Category 2
Repr. 2	Reproductive toxicity, Hazard Category 2
Repr. 2	Reproductive toxicity, Hazard Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. 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.
H411	Toxic to aquatic life with long lasting effects.

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	Restricted to professional users
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<p>According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  Classification according to Regulation (EC) No. 1272/2008 [CLP]  Labelling according to Regulation (EC) No. 1272/2008 [CLP]</p>
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