	<b>SAFETY DATA SHEET</b>	Page : 1 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

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

### 1.1. Product identifier

Product form : Substance (UVCB)  
Trade name/designation : Petroleum gases, liquefied  
Chemical name : Petroleum gas; Petroleum gases, liquefied  
EC-No. : 270-704-2  
CAS-No. : 68476-85-7  
REACH registration No : NA  
Product group : Trade product

### 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 : Fuels  
Propellant  
Welding

#### 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. Gas 1 H220  
Press. Gas (Liq.) H280  
Muta. 1B H340  
Carc. 1B H350

Full text of H statements : see section 16

	<b>SAFETY DATA SHEET</b>	Page : 2 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS08

Signal word :

Danger

Hazard statements (CLP) :

H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
H340 - May cause genetic defects.  
H350 - May cause cancer.

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.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P308+P313 - IF exposed or concerned: Get medical advice.  
P381 - In case of leakage, eliminate all ignition sources.  
P403 - Store in a well-ventilated place.

Extra phrases :

Restricted to professional users

## 2.3. Other hazards

Other hazards :

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances


Substance type : UVCB  
Substance name : Petroleum gases, liquefied  
CAS-No. : 68476-85-7  
EC-No. : 270-704-2

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied	(CAS-No.) 68476-85-7 (EC-No.) 270-704-2 (REACH-no) NA	100	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Muta. 1B, H340 Carc. 1B, H350
Petroleum gas; Petroleum gases, liquefied	(CAS-No.) 68476-85-7 (EC-No.) 270-704-2 (EC Index) 649-202-00-6	100	Press. Gas Flam. Gas 1, H220 Carc. 1A, H350 Muta. 1B, H340

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

	<b>SAFETY DATA SHEET</b>	Page : 3 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

Additional advice	: Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. Keep at rest. In case of shortness of breath, give oxygen. Get medical advice/attention.
Skin contact	: Treat frozen body-parts appropriately. In case of frostbite, wash with plenty of water; do not remove clothing. Call a physician immediately.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion	: No hazards which require special first aid measures.

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

Inhalation	: Effects of breathing high concentrations of vapour may include: headache, nausea, dizziness. Concentrations substantially above the admissible concentration at the workplace may cause unconsciousness. Asphyxia.
Eyes contact	: Rapid evaporation of the liquid may cause frostbite.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

##### 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	: None known.

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

Specific hazards	: Evacuate personnel to a safe area. Heating causes rise in pressure with risk of bursting. Use water spray or fog for cooling exposed containers. 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. Do not allow run-off from fire-fighting to enter drains or water courses. Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
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.
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#### 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. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8.
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###### 6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place.
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	<b>SAFETY DATA SHEET</b>	Page : 4 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Methods for cleaning up : Remove all sources of ignition. Use only explosion-proof equipment. Do not smoke. Provide for sufficient ventilation, particularly in closed rooms. Stop leak if safe to do so.

### **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 : Concerning personal protective equipment to use, see section 8. Do not smoke. Do not breathe vapour/aerosol. Avoid contact with skin and eyes. Use only explosion-proof equipment. Ensure equipment is adequately earthed. Do not burn, or use a cutting torch on the empty drum. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Hygiene measures : Keep good industrial hygiene. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Eye wash bottle with pure water.

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

Technical measures : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep only in the original container. Protect from sunlight. 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.


### **7.3. Specific end use(s)**

No data available

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

<b>Petroleum gas; Petroleum gases, liquefied (68476-85-7)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1826 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1000 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup> (applies if not containing >0.1% 1,3-Butadiene)
Croatia	GVI (granična vrijednost izloženosti) (ppm)	1000 ppm (applies if not containing >0.1% 1,3-Butadiene)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	2180 mg/m <sup>3</sup> (if not containing more than 0.1% 1,3-Butadiene)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	1250 ppm (if not containing more than 0.1% 1,3-Butadiene)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m <sup>3</sup> )	2250 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	1250 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	2250 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	1250 ppm
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2250 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	1250 ppm

	<b>SAFETY DATA SHEET</b>	Page : 5 / 11
	<b>Petroleum gases, liquefied</b>	Revision nr : 1
		Issue date : 20/03/2018
		Supersedes : 25/07/2012

<b>Petroleum gas; Petroleum gases, liquefied (68476-85-7)</b>		
Portugal	OEL TWA (ppm)	1000 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2180 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1250 ppm
Australia	TWA (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Australia	TWA (ppm)	1000 ppm
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Canada (Quebec)	VEMP (ppm)	1000 ppm
USA - IDLH	US IDLH (ppm)	2000 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL (TWA) (ppm)	1000 ppm


## **8.2. Exposure controls**

Engineering measure(s)	: Use only in area provided with appropriate exhaust ventilation. Ensure equipment is adequately earthed.
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	: EN374. 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. Butyl caoutchouc (butyl rubber)
Eye protection	: Safety glasses. EN166
Body protection	: liquid. antistatic boots
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. (type AX1/AX2/AX3/P3; EN 141/136/140/137/143). Use self-contained respiratory apparatus for rescue and maintenance work in storage vessels.
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	: Gas
Appearance	: Press. Gas (Liq.).
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: -187,6 - -138,3 °C
Freezing point	: No data available
Initial boiling point and boiling range	: -161,48 - -0,5 °C
Flash point	: -104 - -60 °C

	<b>SAFETY DATA SHEET</b>	Page : 6 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

Auto-ignition temperature	: 287 - 537 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable
Vapour pressure	: study technically not feasible
Vapour density	: No data available
Relative density	: No data available
Solubility	: Water: 24,4 - 60,4 mg/l @20°C
Partition coefficient n-octanol/water	: 1,09 - 2,8
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. 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	: LEL: 1,8 %
<b>9.2. Other information</b>	
VOC content	: 100 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable gases. Reference to other sections: 10.5.

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

In use may form flammable/explosive vapour-air mixture.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Temperatures above 38 °C. Exposure to sunlight.

### 10.5. Incompatible materials

oxidising substances. See also section 7.

### 10.6. Hazardous decomposition products

Burning produces noxious and toxic fumes. Possible decomposition products are: Carbon oxides.

## 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>Petroleum gases, liquefied (68476-85-7)</b>	
LC50/inhalation/4h/rat	658 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)  
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. (Based on available data, the classification criteria are not met.)

	<b>SAFETY DATA SHEET</b>	Page : 7 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

Carcinogenicity	: May cause cancer. (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met.)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)
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 : not hazardous.

### 12.2. Persistence and degradability

Petroleum gases, liquefied (68476-85-7)	
Persistence and degradability	Inherently biodegradable.

### 12.3. Bioaccumulative potential

Petroleum gases, liquefied (68476-85-7)	
Partition coefficient n-octanol/water	1,09 - 2,8
Petroleum gas; Petroleum gases, liquefied (68476-85-7)	
Partition coefficient n-octanol/water	<= 2,8

### 12.4. Mobility in soil

Petroleum gases, liquefied (68476-85-7)	
Ecology - soil	Immiscible.

### 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	: Dispose of contaminated materials in accordance with current regulations. Do not burn, or use a cutting torch on the empty drum. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
Additional information	: Delivery to an approved waste disposal company. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.
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)	: Waste codes should be assigned by the user based on the application for which the product was used. 16 05 04* - gases in pressure containers (including halons) containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

	<b>SAFETY DATA SHEET</b>	Page : 8 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

### SECTION 14: Transport information

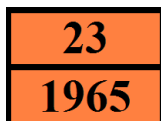
In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
1965	1965	1965	Not applicable	1965
<b>14.2. UN proper shipping name</b>				
HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. (Petroleum gases, liquefied ())	(Petroleum gases, liquefied ())	(Petroleum gases, liquefied ())	(Petroleum gases, liquefied ())	(Petroleum gases, liquefied ())
<b>Transport document description</b>				
UN 1965 HYDROCARBON GAS MIXTURE, LIQUEFIED, N.O.S. (Petroleum gases, liquefied ()), 2.1, (B/D)	UN 1965 (Petroleum gases, liquefied ()), 2	UN 1965 (Petroleum gases, liquefied ()), 2		UN 1965 (Petroleum gases, liquefied ()), 2.1
<b>14.3. Transport hazard class(es)</b>				
2.1	2	2	Not applicable	2.1
	Not applicable	Not applicable	Not applicable	
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<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
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : 2F  
 Excepted quantities (ADR) : E0  
 Hazard identification number (Kemler No.) : 23  
 Orange plates :



Tunnel restriction code : B/D  
 EAC code : 2YE


#### - Transport by sea

Limited quantities (IMDG) : None

#### - Air transport

No data available



	<b>SAFETY DATA SHEET</b>	Page : 9 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

**- Inland waterway transport**

No data available

**- Rail transport**

No data available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 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**

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

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	Petroleum gases, liquefied - Petroleum gas; Petroleum gases, liquefied
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	Petroleum gases, liquefied - Petroleum gas; Petroleum gases, liquefied
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.	Petroleum gases, liquefied - Petroleum gas; Petroleum gases, liquefied

Petroleum gases, liquefied is not on the REACH Candidate List

Petroleum gases, liquefied is not on the REACH Annex XIV List

VOC content : 100 %


**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**

Reference to AwSV : Water hazard class (WGK) 1, low hazard to waters

	<b>SAFETY DATA SHEET</b>	Page : 10 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

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

#### Netherlands

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

SZW-lijst van kankerverwekkende stoffen : Petroleum gases, liquefied is listed

SZW-lijst van mutagene stoffen : Petroleum gases, liquefied 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. Gas 1; Press. Gas (Liq.)>; 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

#### 15.2. Chemical safety assessment

Not required

### SECTION 16: Other information

Indication of changes:

1		Modified	
2		Modified	
5		Modified	
15		Modified	
16		Modified	


Abbreviations and acronyms:

	NA= Not applicable
	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

Sources of key data used to compile the datasheet : <http://ecb.jrc.ec.europa.eu>, Concawe.

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
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	<b>SAFETY DATA SHEET</b>	Page : 11 / 11
		Revision nr : 1
	<b>Petroleum gases, liquefied</b>	Issue date : 20/03/2018
		Supersedes : 25/07/2012

Carc. 1B	Carcinogenicity, Category 1B
Flam. Gas 1	Flammable gases, hazard category 1
Muta. 1B	Germ cell mutagenicity, hazard categories 1B
Press. Gas	Gases under pressure
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H340	May cause genetic defects.
H350	May cause cancer.
	Restricted to professional users

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]

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