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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 : Ethylene  
Chemical name : ethylene  
EC Index : 601-010-00-3  
EC-No. : 200-815-3  
CAS-No. : 74-85-1

### 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, Professional use

#### 1.2.2. Uses advised against

No additional information available

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

QATAR PETROCHEMICAL COMPANY (QAPCO)

P.O. Box 756  
DOHA  
QATAR  
T 00974 424 2444

### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week  
Within USA and Canada: 1-800-424-9300 CCN724450  
Outside USA and Canada: +1 703-741-5970; +1 703-527-3887  
(collect calls accepted)


Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flammable gases, Category 1A H220  
Gases under pressure  
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
Full text of H- and EUH-statements: see section 16

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### 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 :

Danger

Hazard statements (CLP) :

H220 - Extremely flammable gas.  
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a POISON CENTRE or doctor if you feel unwell.  
P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 - In case of leakage, eliminate all ignition sources.  
P403 - Store in a well-ventilated place.  
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.

Listed on CLP Annex VI :

EC Index-No.: 601-010-00-3

### 2.3. Other hazards

Other hazards :

Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII.


Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance name : ethylene  
CAS-No. : 74-85-1  
EC-No. : 200-815-3  
EC Index : 601-010-00-3

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylene	CAS-No.: 74-85-1 EC-No.: 200-815-3 EC Index: 601-010-00-3	> 99,9	Flam. Gas 1A, H220 Press. Gas (Liq.), H280 STOT SE 3, H336

Full text of H- and EUH-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!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Thaw frosted parts with lukewarm water. Do not rub affected area. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Get medical advice/attention.

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

Inhalation	: May cause drowsiness or dizziness. The following symptoms may occur: Causes asphyxiation in high concentrations. The victim will not realize that he/she is suffocating.
Skin contact	: The following symptoms may occur: Contact with liquid or refrigerated gas can cause cold burns and frostbite.
Eyes contact	: The following symptoms may occur: Contact with liquid or refrigerated gas can cause cold burns and frostbite.


### **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	: dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Water spray. Water fog.
Unsuitable extinguishing media	: Strong water jet.

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

- Specific hazards : Extremely flammable gas. May be ignited by sparks. Pressurized container. On heating there is a risk of bursting due to internal pressure build-up.
- Explosion hazard : Can form explosive mixtures with air.
- Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. soot. Aldehydes. ketones.

### **5.3. Advice for firefighters**

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## **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 unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe gas. Avoid contact with skin, eyes and clothing.

#### **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. Notify authorities if product enters sewers or public waters.

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

- Methods for cleaning up : Stop leak if safe to do so. Leave evaporate and disperse. This material and its container must be disposed of in a safe way, and as per local legislation.


### **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 ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe gas. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

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Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.

Incompatible materials : Strong oxidizing agents. air or oxygen. Nitrogen oxides (NOx). Peroxides. halogens (F, Cl, Br, I).

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Packaging materials : Keep only in the original container. Suitable material: Stainless steel, Carbon steel.

**Switzerland**

Storage class (LK) : LK 2 - Liquefied or pressurized gases

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


No data available.

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


**8.1. Control parameters**

**8.1.1 National occupational exposure and biological limit values**

<b>Ethylene (74-85-1)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Ethylène # Etheen
OEL TWA	233 mg/m <sup>3</sup>
	200 ppm
Remark	A: la mention "A" signifie que l'agent libère un gaz ou une vapeur qui n'ont en eux-mêmes aucun effet physiologique mais peuvent diminuer le taux d'oxygène dans l'air. Lorsque le taux d'oxygène descend en dessous de 17-18 % (vol/vol) le manque d'oxygène provoque des suffocations qu'aucun symptôme préalable n'annonce. # A: de vermelding "A" betekent dat dit agens gas of damp vrijgeeft dat of die op zich geen fysiologische werking heeft, maar het zuurstofgehalte in de lucht verlaagt. Wanneer het zuurstofgehalte daalt onder de 17-18 % (vol/vol), veroorzaakt het zuurstoftekort verstikking, die zich manifesteert zonder dat er een waarschuwing aan voorafgaat.
OEL chemical category	Asphyxiant
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>Finland - Occupational Exposure Limits</b>	
Local name	Etyleeni

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<b>Ethylene (74-85-1)</b>	
HTP (OEL TWA)	200 ppm (suffocating gas that displaces oxygen)
Remark	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Ethylene
OEL TWA	200 ppm
OEL STEL	600 ppm (calculated)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)
OEL chemical category	Simple asphyxiant
Regulatory reference	Chemical Agents Code of Practice 2024
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Etilēns
OEL TWA	100 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Etilenas
IPRV (OEL TWA)	100 mg/m <sup>3</sup>
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Etileno
OEL TWA	200 ppm
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Slovakia - Biological limit values</b>	
Local name	Etylén
BLV	180 µg/l Medium: red blood cells - Sampling time: not critical
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 471/2011 Z.z.)
<b>Spain - Occupational Exposure Limits</b>	
Local name	Etileno
VLA-ED (OEL TWA)	200 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2024. INSHT

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<b>Ethylene (74-85-1)</b>	
<b>Sweden - Occupational Exposure Limits</b>	
Local name	Eten
NGV (OEL TWA)	330 mg/m <sup>3</sup>
	250 ppm
KGV (OEL STEL)	1200 mg/m <sup>3</sup>
	1000 ppm
Remark	V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Ethylène / Ethen [Ethylen]
MAK (OEL TWA)	11500 mg/m <sup>3</sup>
	10000 ppm
Notation	M2 / M2
Remark	NIOSH
OEL chemical category	Category 2 mutagen
Regulatory reference	www.suva.ch, 01.01.2024
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethylene
ACGIH OEL TWA	200 ppm
Remark (ACGIH)	TLV <sup>®</sup> Basis: Asphyxia. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

### 8.1.2. Recommended monitoring procedures

<b>Monitoring methods</b>	
Monitoring methods	Personal air monitoring. Room air monitoring.

### 8.1.3. Air contaminants formed


No additional information available

### 8.1.4. DNEL and PNEC

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

### 8.1.5. Control banding

No additional information available

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## 8.2. Exposure controls


Engineering measure(s)	: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Use only outdoors or in a well-ventilated area.
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	: cold insulating gloves
Eye protection	: Do not wear contact lenses. Safety glasses
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment : Use self-contained breathing apparatus
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

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

Physical state	: Gas
Colour	: Colourless.
Appearance	: Compressed gas.
Molecular weight	: 28 g/mol
Odour	: Ether.
Odour threshold	: No data available
Melting / freezing point	: -169 °C
Freezing point	: Not applicable
Initial boiling point and boiling range	: -103,7 °C
Flammability	: Extremely flammable gas.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: -172 – -135 °C (ASTM D93)
Auto-ignition temperature	: 425 – 543 °C
Decomposition temperature	: 700 °C
pH	: Not applicable
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Solubility	: Insoluble in water. Soluble in hydrocarbons. Organic solvents. Water: 154 mg/l (20°C); 200 (10°C)
Partition coefficient n-octanol/water (Log Kow)	: 1,21
Partition coefficient n-octanol/water	: No data available
Vapour pressure	: 44000 hPa (20 °C)
Vapour pressure at 50°C	: Not available
Density	: 610 kg/m <sup>3</sup> (0°C); 570 kg/m <sup>3</sup> (-103°C) (Compressed liquefied gas)
Relative density	: No data available
Vapour density	: No data available



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Relative gas density : 0,9 – 0,98 (Air = 1.0)  
Particle characteristics : Not applicable

**9.2. Other information**

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

Explosion limits : 2700 – 32000 vol %  
Critical temperature : 9,9 °C (Pressure = 5030kPa)

**9.2.2. Other safety characteristics**

Additional information : Henry's Constant : 21 kPa.m<sup>3</sup>/mol

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reference to other sections: 10.4 & 10.5.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Extremely flammable gas.

**10.4. Conditions to avoid**

See Section 7 for information on safe handling.

**10.5. Incompatible materials**

See Section 7 for information on safe handling.

**10.6. Hazardous decomposition products**

Reference to other sections 5.2.


**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

<b>Ethylene (74-85-1)</b>	
LC50/inhalation/4h/rat (ppm)	> 57000 ppm/4h

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

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

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

<b>Ethylene (74-85-1)</b>	
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IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness.

<b>Ethylene (74-85-1)</b>	
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STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not applicable

<b>Ethylene (74-85-1)</b>	
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Kinematic viscosity	No data available
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## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### **11.2.2. Other information**

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4


<b>SECTION 12: Ecological information</b>
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### **12.1. Toxicity**

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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### 12.2. Persistence and degradability

Ethylene (74-85-1)	
Persistence and degradability	No additional information available.

### 12.3. Bioaccumulative potential

Ethylene (74-85-1)	
Partition coefficient n-octanol/water	No data available
Partition coefficient n-octanol/water (Log Kow)	1,21
Bioaccumulative potential	No additional information available.

Ethylene (74-85-1)	
BCF - Fish [1]	4 – 4,6
Partition coefficient n-octanol/water	1,13 (at 25 °C (at pH 7)

### 12.4. Mobility in soil

Ethylene (74-85-1)	
Mobility in soil	No data available

### 12.5. Results of PBT and vPvB assessment

Ethylene (74-85-1)	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.


### 12.7. Other adverse effects

Other adverse effects : No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods






Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

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European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

### SECTION 14: Transport information

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


ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
1962	1962	1962	1962	1962
<b>14.2. UN proper shipping name</b>				
ETHYLENE	ETHYLENE	Ethylene	ETHYLENE	ETHYLENE
<b>Transport document description</b>				
UN 1962 ETHYLENE, 2.1, (B/D)	UN 1962 ETHYLENE, 2.1	UN 1962 Ethylene, 2.1	UN 1962 ETHYLENE, 2.1	UN 1962 ETHYLENE, 2.1
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1	2.1	2.1
				
<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

Special precautions for user : No data available

#### - Overland transport

Classification code (ADR) : 2F  
Special provisions : 662  
Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P200  
Mixed packing provisions (ADR) : MP9  
Portable tank and bulk container instructions (ADR) : (M)  
Tank code (ADR) : PxBN(M)  
Tank special provisions (ADR) : TA4, TT9  
Vehicle for tank carriage : FL  
Transport category (ADR) : 2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV10, CV36  
Special provisions for carriage - Operation (ADR) : S2, S20

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Hazard identification number (Kemler No.) : 23

Orange plates : 

23
1962

Tunnel restriction code : B/D

EAC code : 2SE

**- Transport by sea**

Limited quantities (IMDG) : 0

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P200

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

Stowage category (IMDG) : E

Stowage and handling (IMDG) : SW2

Properties and observations (IMDG) : Flammable gas. Explosive limits: 3% to 34%. Slightly lighter than air (0.98).

**- Air transport**

PCA Excepted quantities (IATA) : E0

PCA Limited quantities (IATA) : Forbidden

PCA limited quantity max net quantity (IATA) : Forbidden

PCA packing instructions (IATA) : Forbidden

PCA max net quantity (IATA) : Forbidden

CAO packing instructions (IATA) : 200

CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A1

ERG code (IATA) : 10A

**- Inland waterway transport**

Classification code (ADN) : 2F

Special provisions (ADN) : 662

Limited quantities (ADN) : 0

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

**- Rail transport**

Classification code (RID) : 2F

Special provisions (RID) : 662


Limited quantities (RID) : 0

Excepted quantities (RID) : E0

Packing instructions (RID) : P200

Mixed packing provisions (RID) : MP9

Portable tank and bulk container instructions (RID) : (M)

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Tank codes for RID tanks (RID) : PxBN(M)  
Special provisions for RID tanks (RID) : TU38, TE22, TA4, TT9, TM6  
Transport category (RID) : 2  
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW10, CW36  
Colis express (express parcels) (RID) : CE3  
Hazard identification number (RID) : 23

#### **14.7. Maritime transport in bulk according to IMO instruments**

Code: IBC : No data available.

### **SECTION 15: Regulatory information**

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

##### **15.1.1. EU-Regulations**

##### **REACH Annex XVII (Restriction List)**

##### **EU restriction list (REACH Annex XVII)**

Reference code	Applicable on	Entry title or description
40.	Ethylene ; Ethylene	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.

##### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

##### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

##### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

##### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

##### **Ozone Regulation (EU 1005/2009)**


Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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#### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### Detergent Regulation (648/2004/EC): Labelling of contents


#### 15.1.2. National regulations

##### France

Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
4310.text	Gaz inflammables catégorie 1 et 2. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines (strates naturelles, aquifères, cavités salines et mines désaffectées) étant :		
4310.1	1. Supérieure ou égale à 10 t Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	A	2
4310.2	2. Supérieure ou égale à 1 t et inférieure à 10 t Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	DC	2
4718.text	Gaz inflammables liquéfiés de catégorie 1 et 2 (y compris GPL) et gaz naturel (y compris biogaz affiné, lorsqu'il a été traité conformément aux normes applicables en matière de biogaz purifié et affiné, en assurant une qualité équivalente à celle du gaz naturel, y compris pour ce qui est de la teneur en méthane, et qu'il a une teneur maximale de 1 % en oxygène). La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines (strates naturelles, aquifères, cavités salines et mines désaffectées) étant :		
4718.1	1. Supérieure ou égale à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4718.2	2. Supérieure ou égale à 6 t mais inférieure à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	1

##### Germany

Employment restrictions	: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK)	: WGK nwg, Non-hazardous to water (Classification according to AwSV; ID No. 742).
Hazardous Incident Ordinance (12. BImSchV)	: Listed in the 12. BImSchV (Annex I) under: 1.2.2 - Quantity threshold for operational area under § 1 para. 1 - Sentence 1 :10000 kg - Sentence 2 :50000 kg

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#### Netherlands

Waterbezwaarlijkheid	: B (5) - Weinig schadelijk voor in het water levende organismen
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

#### Denmark

Class for fire hazard	: Class I-1
Store unit	: 1 liter
Classification remarks	: F+ <Flam. Gas 1A; Press. Gas>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment


Not applicable.

### SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	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
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)



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	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI. Supplier information.

Training advice : Training staff on good practice.

Other information : For any further details or query please contact us at: [stewardship@qapco.com.qa](mailto:stewardship@qapco.com.qa).

Full text of H- and EUH-statements:

Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.
Press. Gas	Gases under pressure
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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