

## acetylene, dissolved under pressure

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

## 1.1. Product identifier

Product name	: acetylene, dissolved under pressure
Synonyms	: acetylen, dissolved; acetylene; acetylene, exxon; ethine, dissolved; ethyne, dissolved under pressure; narycylen, dissolved
Registration number REACH	: 01-2119457406-36
Product type REACH	: Substance/mono-constituent
CAS number	: 74-86-2
EC index number	: 601-015-00-0
EC number	: 200-816-9
RTECS number	: AO9600000
Molecular mass	: 26.04 g/mol
Formula	: C <sub>2</sub> H <sub>2</sub>

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

## 1.2.1 Relevant identified uses

Industrial and professional use. Before use: carry out a risk assessment

## 1.2.2 Uses advised against

No uses advised against known

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

Supplier of the safety data sheet

CHEMOGAS NV  
Westvaardijk 85  
B-1850 Grimbergen Belgium  
☎ +32 2 251 60 87  
✉ +32 2 252 17 51  
info@chemogas.com

Distributor of the product

CHEMOGAS NV  
Westvaardijk 85  
B-1850 Grimbergen Belgium  
☎ +32 2 251 60 87  
✉ +32 2 252 17 51  
info@chemogas.com

## 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):  
+32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Gas	category 1	H220: Extremely flammable gas.
Press. Gas	Dissolved gas	H280: Contains gas under pressure; may explode if heated.
Chem. Unst. Gas	Category A	H230: May react explosively even in the absence of air.

## 2.2. Label elements



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**Signal word**

Danger

**H-statements**

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.  
H230 May react explosively even in the absence of air.

**P-statements**

P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P381 Eliminate all ignition sources if safe to do so.  
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

**2.3. Other hazards**

May build up electrostatic charges: risk of ignition  
May be ignited by sparks  
Gas/vapour spreads at floor level: ignition hazard  
May cause frostbites  
Large spills/in enclosed spaces: risk of oxygen deficiency  
Not readily biodegradable in water

## SECTION 3: Composition/information on ingredients

**3.1. Substances**

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
acetylene 01-2119457406-36	74-86-2 200-816-9	C>99 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 Chem. Unst. Gas A; H230	(1)(2)(10)	Mono-constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

**3.2. Mixtures**

Not applicable

## SECTION 4: First aid measures

**4.1. Description of first aid measures****General:**

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

**After inhalation:**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**After skin contact:**

Rinse with water. Rinse with water for 20 minutes. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

**After eye contact:**

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

**After ingestion:**

Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed****4.2.1 Acute symptoms****After inhalation:**

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Dizziness. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Narcosis. Rapid respiration. Accelerated heart action. High arterial pressure. Vomiting. Nausea. Coordination disorders. Disturbances of consciousness. Cramps/uncontrolled muscular contractions. Respiratory collapse.

**After skin contact:**

Frostbites.

**After eye contact:**

.

**After ingestion:**

Not applicable.

**4.2.2 Delayed symptoms**

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

**5.1.1 Suitable extinguishing media:**

Water spray. BC powder. Carbon dioxide.

**5.1.2 Unsuitable extinguishing media:**

No unsuitable extinguishing media known.

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

Upon combustion: CO and CO<sub>2</sub> are formed. Polymerizes on exposure to temperature rise. Explosive decomposition upon a rise of pressure and on exposure to temperature rise: release of highly flammable gases/vapours (hydrogen).

**5.3. Advice for firefighters**

**5.3.1 Instructions:**

If no hazard for/from the surroundings: controlled burning. If hazardous substances are nearby: consider extinguishment. Extinguish only if gas supply/leak can be shut afterwards. Cool tanks/drums with water spray/remove them into safety. Extinguish/cool from behind cover/unmanned monitors. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion.

**5.3.2 Special protective equipment for fire-fighters:**

Insulating gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

Keep upwind. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Prevent shock/impact. Avoid ingress of water in the containers.

**6.1.1 Protective equipment for non-emergency personnel**

See heading 8.2

**6.1.2 Protective equipment for emergency responders**

Insulating gloves. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

Suitable protective clothing

See heading 8.2

**6.2. Environmental precautions**

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Tip the container on one side to stop the leakage. Try to reduce evaporation.

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

Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

**6.4. Reference to other sections**

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

**7.1. Precautions for safe handling**

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid contact of substance with water. Observe normal hygiene standards. Avoid shock and friction.

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

**7.2.1 Safe storage requirements:**

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Storage temperature: <50 °C. Keep out of direct sunlight. Keep container in a well-ventilated place. Fireproof storeroom. Provide for an automatic sprinkler system. Provide the tank with earthing. Under a shelter/in the open. Detached building. Meet the legal requirements.

## 7.2.2 Keep away from:

Heat sources, ignition sources, combustible materials, oxidizing agents, metals, halogens.

## 7.2.3 Suitable packaging material:

Steel, monel steel, iron.

## 7.2.4 Non suitable packaging material:

Aluminium, copper, bronze.

## 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 DNEL/PNEC values

##### DNEL/DMEL - Workers

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Long-term local effects inhalation	2675 mg/m <sup>3</sup>	
	Acute local effects inhalation	2675 mg/m <sup>3</sup>	

acetylene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Long-term local effects inhalation	2675 mg/m <sup>3</sup>	
	Acute local effects inhalation	2675 mg/m <sup>3</sup>	

##### DNEL/DMEL - General population

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Long-term local effects inhalation	2675 mg/m <sup>3</sup>	
	Acute local effects inhalation	2675 mg/m <sup>3</sup>	

acetylene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2675 mg/m <sup>3</sup>	
	Long-term local effects inhalation	2675 mg/m <sup>3</sup>	
	Acute local effects inhalation	2675 mg/m <sup>3</sup>	

#### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid contact of substance with water. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

##### a) Respiratory protection:

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High vapour/gas concentration: self-contained respirator.

## b) Hand protection:

Insulated gloves.

- materials (good resistance)

Butyl rubber, chlorosulfonated polyethylene, leather, neoprene, polyethylene, PVC, viton.

- materials (less resistance)

Chloroprene rubber.

## c) Eye protection:

Protective goggles.

## d) Skin protection:

Protective clothing.

## 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Gas
Odour	Pure substance is odourless
	Commercial/unpurified substance: Unpleasant odour
Odour threshold	>226 ppm
	>240 mg/m <sup>3</sup>
Colour	Colourless
Particle size	Not applicable (gas)
Explosion limits	2.5 - 100 vol %
	25 - 900 g/m <sup>3</sup>
Flammability	Extremely flammable gas.
Log Kow	0.32 - 0.37 ; Experimental value
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	0.9
Vapour pressure	44800 hPa ; 20 °C
	4535 hPa ; 22 °C
Solubility	water ; 0.12 g/100 ml ; 020 °C
Relative density	0.73 ; -84 °C
Decomposition temperature	>160 °C
Auto-ignition temperature	305 °C ; 1013 hPa
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

### 9.2. Other information

Minimum ignition energy	0.019 mJ
Critical temperature	36 °C
Critical pressure	62500 hPa
Surface tension	0.019 N/m ; -80 °C
Absolute density	1.2 kg/m <sup>3</sup>
Sublimation temperature	-84 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Substance has neutral reaction.

### 10.2. Chemical stability

Unstable.

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## 10.3. Possibility of hazardous reactions

May react explosively even in the absence of air. Violent to explosive reaction with many compounds e.g.: with (some) metals and their compounds, with (some) halogens and with (strong) oxidizers: (increased) risk of fire/explosion.

## 10.4. Conditions to avoid

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Avoid contact of substance with water.

## 10.5. Incompatible materials

Combustible materials, oxidizing agents, metals, halogens.

## 10.6. Hazardous decomposition products

Explosive decomposition upon a rise of pressure and on exposure to temperature rise: release of highly flammable gases/vapours (hydrogen). Upon combustion: CO and CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

##### acetylene, dissolved under pressure

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC0		160500 mg/m <sup>3</sup>	4 h	Rat (male)	Experimental value	

##### acetylene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC0		160500 mg/m <sup>3</sup>	4 h	Rat (male)	Experimental value	

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### acetylene, dissolved under pressure

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Skin						Data waiving	

##### acetylene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Skin						Data waiving	

#### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

#### Respiratory or skin sensitisation

##### acetylene, dissolved under pressure

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	
Inhalation						Data waiving	

##### acetylene

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	
Inhalation						Data waiving	

#### Conclusion

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Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (gases)	NOAEC	Subacute toxicity test	800000 ppm		No effect	93 day(s)	Rat	Experimental value

### acetylene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (gases)	NOAEC	Subacute toxicity test	800000 ppm		No effect	93 day(s)	Rat	Experimental value

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### acetylene, dissolved under pressure

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 473	CHL/IU cells	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

### acetylene

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 473	CHL/IU cells	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value

## Mutagenicity (in vivo)

### acetylene, dissolved under pressure

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

### acetylene

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

## Carcinogenicity

### acetylene, dissolved under pressure

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (gases)	NOAEC		20 ppm	[12;18] month(s)	Mouse (male/female)	Experimental value		No carcinogenic effect
Dermal						Data waiving		
Oral						Data waiving		

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## acetylene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (gases)	NOAEC		20 ppm	[12;18] month(s)	Mouse (male/female)	Experimental value		No carcinogenic effect
Dermal						Data waiving		
Oral						Data waiving		

## Reproductive toxicity

### acetylene, dissolved under pressure

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility								Data waiving

### acetylene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity								Data waiving
Maternal toxicity								Data waiving
Effects on fertility								Data waiving

## Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

### acetylene, dissolved under pressure

No (test)data available

## Chronic effects from short and long-term exposure

### acetylene, dissolved under pressure

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### acetylene, dissolved under pressure

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		200 mg/l	33 h	Salmo trutta			Lethal
	LC50	ECOSAR	545 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity invertebrates	LC50	ECOSAR	242 mg/l	48 h	Daphnia magna			QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR	57 mg/l	96 h	Algae			QSAR

#### acetylene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		200 mg/l	33 h	Salmo trutta			Lethal
	LC50	ECOSAR	545 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity invertebrates	LC50	ECOSAR	242 mg/l	48 h	Daphnia magna			QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR	57 mg/l	96 h	Algae			QSAR

## Conclusion

Slightly harmful to fishes

Slightly harmful to invertebrates (Daphnia)

Slightly harmful to algae

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

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## Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	0 %	28 day(s)	Experimental value

## Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN	19.7 day(s)	500000 /cm <sup>3</sup>	Calculated value

## Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

## acetylene

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	0 %	28 day(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN	19.7 day(s)	500000 /cm <sup>3</sup>	Calculated value

### Half-life soil (t1/2 soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

## Conclusion

Not readily biodegradable in water

## 12.3. Bioaccumulative potential

### acetylene, dissolved under pressure

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		0.32 - 0.37		Experimental value

## acetylene

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		0.32 - 0.37		Experimental value

## Conclusion

Low potential for bioaccumulation (Log Kow < 4)

## 12.4. Mobility in soil

Not applicable (gas)

## 12.5. Results of PBT and vPvB assessment

Substance does not meet the criteria of PBT, nor the criteria of vPvB according to Annex XIII of Regulation (EC) No 1907/2006, so is neither PBT nor vPvB.

## 12.6. Other adverse effects

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#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## acetylene

#### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

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Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

16 05 04\* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing dangerous substances).

Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Regulation (EU) No 1357/2014.

## 13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

## 13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1. UN number

UN number	1001
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#### 14.2. UN proper shipping name

Proper shipping name	Acetylene, dissolved
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#### 14.3. Transport hazard class(es)

Hazard identification number	239
Class	2
Classification code	4F

#### 14.4. Packing group

Packing group	
Labels	2.1

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
------------------------------------------	----

#### 14.6. Special precautions for user

Special provisions	662
Limited quantities	none.

### Rail (RID)

#### 14.1. UN number

UN number	1001
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#### 14.2. UN proper shipping name

Proper shipping name	Acetylene, dissolved
----------------------	----------------------

#### 14.3. Transport hazard class(es)

Hazard identification number	239
Class	2
Classification code	4F

#### 14.4. Packing group

Packing group	
Labels	2.1 (+13)

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
------------------------------------------	----

#### 14.6. Special precautions for user

Special provisions	662
Limited quantities	none.

### Inland waterways (ADN)

#### 14.1. UN number

UN number	1001
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#### 14.2. UN proper shipping name

Proper shipping name	Acetylene, dissolved
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#### 14.3. Transport hazard class(es)

Class	2
Classification code	4F

#### 14.4. Packing group

Packing group	
Labels	2.1

#### 14.5. Environmental hazards

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Environmentally hazardous substance mark	no
------------------------------------------	----

14.6. Special precautions for user

Special provisions	662
Limited quantities	none.

**Sea (IMDG/IMSBC)**

14.1. UN number

UN number	1001
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14.2. UN proper shipping name

Proper shipping name	Acetylene, dissolved
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14.3. Transport hazard class(es)

Class	2.1
-------	-----

14.4. Packing group

Packing group	
Labels	2.1

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	
Limited quantities	none.

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

Annex II of MARPOL 73/78	Not applicable
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**Air (ICAO-TI/IATA-DGR)**

14.1. UN number

UN number	1001
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14.2. UN proper shipping name

Proper shipping name	Acetylene, dissolved
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14.3. Transport hazard class(es)

Class	2.1
-------	-----

14.4. Packing group

Packing group	
Labels	2.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
------------------------------------------	----

14.6. Special precautions for user

Special provisions	A1
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

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

**European legislation:**

VOC content Directive 2010/75/EU

VOC content	Remark
100 %	

REACH Annex XVII - Restriction

Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· acetylene · acetylene	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 that Regulation or not.	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — “whoopee” cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on

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# acetylene, dissolved under pressure

the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:  
"For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

## National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	11

## National legislation Germany

WGK	nwg; Classification non-water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 1)
TA-Luft	5.2.5

## National legislation France

No data available

## National legislation Belgium

No data available

## Other relevant data

No data available

## 15.2. Chemical safety assessment

A chemical safety assessment has been performed.

## SECTION 16: Other information

### Full text of any H-statements referred to under headings 2 and 3:

- H220 Extremely flammable gas.
- H230 May react explosively even in the absence of air.
- H280 Contains gas under pressure; may explode if heated.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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