

## propene, liquefied, under pressure

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

## 1.1. Product identifier

Product name	: propene, liquefied, under pressure
Synonyms	: 1-propene; 1-propene, liquefied, under pressure; 1-propylene, liquefied, under pressure; methylethene, liquefied, under pressure; methylethylene, liquefied, under pressure; propene; propylene; R 1270, liquefied, under pressure; R1270
Registration number REACH	: 01-2119447103-50
Product type REACH	: Substance/mono-constituent
CAS number	: 115-07-1
EC index number	: 601-011-00-9
EC number	: 204-062-1
Molecular mass	: 42.08 g/mol
Formula	: C3H6

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

1.2.1 Relevant identified uses

Chemical raw material  
Propellant  
Monomer

1.2.2 Uses advised against

## 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	Liquefied gas	H280: Contains gas under pressure; may explode if heated.

## 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.

**P-statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P381 In case of leakage, eliminate all ignition sources.  
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  
Gas/vapour spreads at floor level: ignition hazard  
May cause frostbites  
Large spills/in enclosed spaces: risk of oxygen deficiency

## 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
propene 01-2119447103-50	115-07-1 204-062-1	C>99 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(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. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. 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. Consult doctor.

**After eye contact:**

Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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:**

EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness. Headache. Nausea. Irritation of the respiratory tract. Disturbed tactile sensibility. Coordination disorders. Disturbances of consciousness. Vomiting. Respiratory difficulties.

**After skin contact:**

Frostbites.

**After eye contact:**

Frostbites.

**After ingestion:**

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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:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO<sub>2</sub> extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

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

Upon combustion: CO and CO<sub>2</sub> are formed.

### 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. Physical explosion risk: extinguish/cool from behind cover. 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. 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 product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Tip the container on one side to stop the leakage. Try to reduce evaporation. Prevent spreading in sewers.

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

Prevent evaporation by covering with: inert absorbent material. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. 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. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Keep container tightly closed. Before use: check for peroxides and eliminate them.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Secure cylinders tightly to prevent overturning. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. Provide for a tub to collect spills. Provide the tank with earthing. Keep only in the original container. Under a shelter/in the open. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, halogens.

#### 7.2.3 Suitable packaging material:

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Steel, stainless steel, monel steel, carbon steel, aluminium, copper.

## 7.2.4 Non suitable packaging material:

Plastics.

## 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.

##### Belgium

Propylène	Time-weighted average exposure limit 8 h	500 ppm
	Time-weighted average exposure limit 8 h	875 mg/m <sup>3</sup>

##### USA (TLV-ACGIH)

Propylene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	500 ppm
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##### 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

If applicable and available it will be listed below.

#### 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. 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:

Full face mask with filter type AX at conc. in air > exposure limit. High vapour/gas concentration: self-contained respirator.

##### b) Hand protection:

Insulated gloves.

- materials (excellent resistance)

Nitrile rubber, neoprene.

- materials (good resistance)

Nitrile rubber, polyethylene, PVC, tetrafluoroethylene, viton.

- materials (poor resistance)

Butyl rubber, chlorosulfonated polyethylene, natural rubber, neoprene.

##### c) Eye protection:

Safety glasses.

##### 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	Liquefied gas
Odour	Characteristic odour
Odour threshold	23 ppm - 80 ppm
	38 mg/m <sup>3</sup> - 138 mg/m <sup>3</sup>
Colour	Colourless

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Particle size	Not applicable (gas)
Explosion limits	2 - 11 vol % 35 - 200 g/m <sup>3</sup>
Flammability	Extremely flammable gas.
Log Kow	1.77 ; Experimental value ; 20 °C
Dynamic viscosity	0.18 mPa.s ; -50 °C 0.078 mPa.s ; 0 °C
Kinematic viscosity	Not determined
Melting point	-185 °C ; 1013 hPa
Boiling point	-48 °C ; 760 mm Hg
Evaporation rate	No data available
Relative vapour density	1.5 ; 0 °C
Vapour pressure	10300 hPa ; 20 °C 20600 hPa ; 50 °C 630 hPa ; -57 °C
Solubility	Water ; 0.02 g/100 ml ; 25 °C Ether ; soluble Ethanol ; soluble Acetic acid ; soluble
Relative density	0.61 ; -48 °C
Decomposition temperature	815 °C
Auto-ignition temperature	455 °C ; 1013 hPa
Flash point	-108.2 °C ; Closed cup
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	7 ; 200 mg/l ; 25 °C

## 9.2. Other information

Minimum ignition energy	0.28 mJ
Critical temperature	92 °C
Critical pressure	46200 hPa
Surface tension	0.02 N/m ; -50 °C
Absolute density	611 kg/m <sup>3</sup> ; -48 °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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Oxidizes on exposure to air: peroxidation resulting in increased fire or explosion risk. Reacts violently with (strong) oxidizers and with (some) acids: (increased) risk of fire/explosion. Polymerizes on exposure to some compounds e.g.: with (some) halogens.

### 10.4. Conditions to avoid

#### Precautionary measures

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

### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, halogens.

### 10.6. Hazardous decomposition products

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

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation	LC50		658 mg/l	4 h	Rat	Literature	
Inhalation (gases)	NOAEC		10000 ppm	2 weeks (daily, 5 days/week)	Rat (male/female)	Weight of evidence	
Inhalation (gases)	LOAEL		50000 ppm	4 h	Rat (male)	Weight of evidence	

As the substance is a gas, inhalation is the most likely route of exposure

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

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

The liquid form can cause frostbites, typical for all liquefied gases

## 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

### propene, liquefied, under pressure

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

The study on skin sensitisation does not need to be conducted as the substance is a gas

## Conclusion

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	Equivalent to OECD 413	17200 mg/m <sup>3</sup>		No effect	14 weeks (6h/day, 5	Rat (male/female)	Experimental value
Inhalation (gases)	LOAEC	Equivalent to OECD 453	5000 ppm	Nose	Slight irritation	103 week(s)	Rat (male/female)	Experimental value

As the substance is a gas, inhalation is the most likely route of exposure

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### propene, liquefied, under pressure

Result	Method	Test substrate	Effect	Value determination
Ambiguous	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

## Mutagenicity (in vivo)

### propene, liquefied, under pressure

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Inhalation (gases))	OECD 474	4 weeks (6h/day, 5 days/week)	Rat (male)		Experimental value

## Conclusion

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Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (gases)	NOAEC	Equivalent to OECD 453	10000 ppm	103 weeks (daily, 5 days/week)	Rat (male/female)	No effect		Experimental value

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

propene, liquefied, under pressure

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Inhalation)	NOAEC	OECD 414	10000 ppm	14 days (6h/day)	Rat (female)	No effect		Experimental value
Maternal toxicity (Inhalation)	NOAEC	OECD 414	10000 ppm	14 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility (Inhalation (gases))	NOAEC	Other	10000 ppm	103 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

### Conclusion

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

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No (test) data available

## Chronic effects from short and long-term exposure

propene, liquefied, under pressure

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ECOSAR	51.7 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity crustacea	LC50	ECOSAR	28.2 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR	12.1 mg/l	96 h	Chlorophyta		Fresh water	QSAR
	ChV	ECOSAR	4.5 mg/l	96 h	Chlorophyta		Fresh water	QSAR
Long-term toxicity fish	ChV	ECOSAR	5.3 mg/l	30 day(s)	Pisces		Fresh water	QSAR
Long-term toxicity aquatic crustacea	ChV	ECOSAR	3.1 mg/l	16 day(s)	Daphnia sp.		Fresh water	QSAR
Toxicity aquatic micro-organisms								Data waiving

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity soil macro-organisms	LC50	ECOSAR	77.3 ppm	14 day(s)	Lumbricus sp.	QSAR

### Conclusion

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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#### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
	14.6 h	500000 /cm <sup>3</sup>	Experimental value

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

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Method	Value	Primary degradation/mineralisation	Value determination
	2.36 day(s)		QSAR

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

Method	Value	Primary degradation/mineralisation	Value determination
			Data waiving

## Conclusion

Biodegradable in water  
Biodegradable in the soil

## 12.3. Bioaccumulative potential

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### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
					Data waiving

### Log Kow

Method	Remark	Value	Temperature	Value determination
		1.77	20 °C	Experimental value

## Conclusion

Low potential for bioaccumulation (Log Kow < 4)

## 12.4. Mobility in soil

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### (log) Koc

Parameter	Method	Value	Value determination
			Data waiving

### Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
1.6E4 Pa.m <sup>3</sup> /mol	SRC HENRYWIN v3.20	25 °C		QSAR

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	100 %	0 %	0 %	0 %	0 %	Calculated value

## Conclusion

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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### Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

### Ozone-depleting potential (ODP)

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

## 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

##### European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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 hazardous substances).

Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

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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. May be discharged to company wastewater treatment plant. Do not discharge into the sewer.

## 13.1.3 Packaging/Container

### European Union

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	1077
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#### 14.2. UN proper shipping name

Proper shipping name	Propylene
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#### 14.3. Transport hazard class(es)

Hazard identification number	23
Class	2
Classification code	2F

#### 14.4. Packing group

Packing group	
Labels	2.1

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	662
Limited quantities	none.

### Rail (RID)

#### 14.1. UN number

UN number	1077
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#### 14.2. UN proper shipping name

Proper shipping name	Propylene
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#### 14.3. Transport hazard class(es)

Hazard identification number	23
Class	2
Classification code	2F

#### 14.4. Packing group

Packing group	
Labels	2.1 (+13)

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	662
Limited quantities	none.

### Inland waterways (ADN)

#### 14.1. UN number

UN number	1077
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#### 14.2. UN proper shipping name

Proper shipping name	Propylene
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#### 14.3. Transport hazard class(es)

Class	2
Classification code	2F

#### 14.4. Packing group

Packing group	
Labels	2.1

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	662
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Limited quantities	none
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## Sea (IMDG/IMSBC)

14.1. UN number	UN number	1077
14.2. UN proper shipping name	Proper shipping name	Propylene
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

## Air (ICAO-TI/IATA-DGR)

14.1. UN number	UN number	1077
14.2. UN proper shipping name	Proper shipping name	Propylene
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
	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
propene	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.	<p>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:</p> <ul style="list-style-type: none"> <li>— metallic glitter intended mainly for decoration,</li> <li>— artificial snow and frost,</li> <li>— “whoopee” cushions,</li> <li>— silly string aerosols,</li> <li>— imitation excrement,</li> <li>— horns for parties,</li> <li>— decorative flakes and foams,</li> <li>— artificial cobwebs,</li> <li>— stink bombs.</li> </ul> <p>2. Without prejudice to the application of other Community provisions on 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”.</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers</p>

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# propene, liquefied, under pressure

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 Belgium

No data available

## National legislation The Netherlands

Waterbezwaarlijkheid	B (3)
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## National legislation France

No data available

## National legislation Germany

WGK	nwg; Classification in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) of 18 April 2017
TA-Luft	5.2.5

## National legislation United Kingdom

No data available

## Other relevant data

TLV - Carcinogen	Propylene; A4
IARC - classification	3; Propylene

## 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 heading 3:

H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.

(*)	INTERNAL CLASSIFICATION BY BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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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