



# SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

## carbon dioxide, liquefied, under pressure

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

#### 1.1 Product identifier:

**Product name** : carbon dioxide, liquefied, under pressure  
**Synonyms** : carbon dioxide; E290  
**Registration number REACH** : Exempted from registration under REACH in Annex IV (Regulation (EC) No 1907/2006)  
**Product type REACH** : Substance/mono-constituent  
**CAS number** : 124-38-9  
**EC number** : 204-696-9  
**RTECS number** : FF6400000  
**Molecular mass** : 44.01 g/mol  
**Formula** : CO<sub>2</sub>

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

##### 1.2.1 Relevant identified uses

Food industry: additive  
Refrigerant gas  
Water treatment  
Carbonisation of soft drinks  
Contact the supplier for special uses

##### 1.2.2 Uses advised against

No uses advised against

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

##### Supplier of the safety data sheet

A.C.P. Belgium N.V./S.A.  
Dellestraat 5  
B-3550 Zolder  
☎ +32 13 53 03 03  
✉ +32 13 53 03 00  
SHEQ@acpco2.com  
<http://www.acpco2.com>

#### 1.4 Emergency telephone number:

24h/24h:  
+32 13 53 03 03 (A.C.P. Belgium)  
24h/24h:  
+48 79 51 15 949 (A.C.P. Poland)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

##### 2.1.1 Classification according to Regulation EC No 1272/2008

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

Class	Category	Hazard statements
Press. Gas	Liquefied gas	H280: Contains gas under pressure; may explode if heated.

##### 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Not classified as dangerous according to the criteria of Directive(s) 67/548/EEC and/or 1999/45/EC

#### 2.2 Label elements:

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

Drawn up according to the criteria of Regulation (EU) No 487/2013, 4th adaptation of Regulation (EC) No 1272/2008



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<b>Signal word</b>	Warning
<b>H-statements</b>	
H280	Contains gas under pressure; may explode if heated.
<b>P-statements</b>	
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

## 2.3 Other hazards:

### CLP

Heat may cause pressure rise in tanks/drums: explosion risk  
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 DSD/DPD	Classification according to CLP	Note	Remark
carbon dioxide	124-38-9 204-696-9	C>99%		Press. Gas - Liquefied gas; H280	(1)(2)	Mono-constituent

(1) For R-phrases and H-statements in full: see heading 16  
(2) Substance with a Community workplace exposure limit

### 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. 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. Cover eyes aseptically. 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: Rapid respiration. Accelerated heart action. Headache. Nausea. Dizziness. Damp/clammy skin. Excited/restless. Visual disturbances. Ringing in the ears. Respiratory difficulties. Disturbances of consciousness. Cramps/uncontrolled muscular contractions.

##### After skin contact:

Frostbites.

##### After eye contact:

Frostbites.

##### 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

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## 5.1 Extinguishing media:

### 5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

On exposure to temperature rise: pressure rise and possible bursting of container.

## 5.3 Advice for firefighters:

### 5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: 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. No naked flames. Carry out specific temperature controls. Large spills/in confined spaces: consider evacuation.

#### 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.

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

Damaged/cooled tanks must be emptied.

### 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:

Keep away from naked flames/heat. Protect cylinders from physical damage; do not drag, roll, slide or drop.

Close container valve after each use and when empty, even if still connected to equipment.

Damaged valves should be reported immediately to the supplier.

Never attempt to transfer gases from one cylinder/container to another. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Store in a dry area. Ventilation at floor level. Meet the legal requirements. Secure cylinders tightly to prevent overturning. Keep only in the original container. Store below 50°C.

#### 7.2.2 Keep away from:

Heat sources, (strong) bases, metal powders.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 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

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

## The Netherlands

Kooldioxide	Time-weighted average exposure limit 8 h	4919 ppm	Public occupational exposure limit value
	Time-weighted average exposure limit 8 h	9000 mg/m <sup>3</sup>	Public occupational exposure limit value

## EU

Carbon dioxide	Time-weighted average exposure limit 8 h	5000 ppm	Indicative occupational exposure limit value
	Time-weighted average exposure limit 8 h	9000 mg/m <sup>3</sup>	Indicative occupational exposure limit value

## Belgium

Carbone (dioxyde de)	Time-weighted average exposure limit 8 h	5000 ppm (A)	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
	Time-weighted average exposure limit 8 h	9131 mg/m <sup>3</sup> (A)	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
	Short time value	30000 ppm (A)	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
	Short time value	54784 mg/m <sup>3</sup> (A)	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

## USA (TLV-ACGIH)

Carbon dioxide	Time-weighted average exposure limit 8 h	5000 ppm	TLV - Adopted Value
	Short time value	30000 ppm	TLV - Adopted Value

## Germany

Kohlenstoffdioxid	Time-weighted average exposure limit 8 h	5000 ppm	TRGS 900
	Time-weighted average exposure limit 8 h	9100 mg/m <sup>3</sup>	TRGS 900

## France

Carbone (dioxyde de)	Time-weighted average exposure limit 8 h	5000 ppm	VRI: Valeur réglementaire indicative
	Time-weighted average exposure limit 8 h	9000 mg/m <sup>3</sup>	VRI: Valeur réglementaire indicative

## UK

Carbon dioxide	Time-weighted average exposure limit 8 h	5000 ppm	Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	9150 mg/m <sup>3</sup>	Workplace exposure limit (EH40/2005)
	Short time value	15000 ppm	Workplace exposure limit (EH40/2005)
	Short time value	27400 mg/m <sup>3</sup>	Workplace exposure limit (EH40/2005)

### b) National biological limit values

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

## 8.1.2 Sampling methods

carbon dioxide, liquefied, under pressure

Product name	Test	Number
Carbon Dioxide	OSHA	ID 172
Carbon Dioxide	NIOSH	6603
Carbon Dioxide	OSHA	ID 172
Carbon Dioxide	NIOSH	6603

## 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

Keep away from naked flames/heat. Protect cylinders from physical damage; do not drag, roll, slide or drop.

Close container valve after each use and when empty, even if still connected to equipment.

Damaged valves should be reported immediately to the supplier.

Never attempt to transfer gases from one cylinder/container to another. Measure the oxygen concentration in the air. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 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:

High vapour/gas concentration: self-contained respirator.

#### b) Hand protection:

Insulated gloves.

#### c) Eye protection:

Safety glasses. In case of splash hazard: face shield.

#### d) Skin protection:

Protective clothing. Safety shoes.

### 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	Odourless
Odour threshold	Not applicable
Colour	Colourless
Particle size	Not applicable (gas)
Explosion limits	No data available
Flammability	Non combustible
Log Kow	0.83 ; Experimental value
Dynamic viscosity	0.000070 Pa.s ; 20 °C
Kinematic viscosity	0.0467 mm <sup>2</sup> /s ; 20 °C
Melting point	-57 °C ; 5000 hPa
Boiling point	Not applicable
Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	1.5
Vapour pressure	58240 hPa ; 20 °C

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Solubility	water ; 0.29 g/100 ml
	ethanol ; soluble
	ether ; soluble
	acetone ; soluble
	methanol ; soluble
	toluene ; soluble
	methyl acetate ; soluble
	heptane ; soluble
Relative density	1.5 ; -79 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	3.70

## Physical hazards

Gas under pressure

## 9.2 Other information:

Critical temperature	31 °C
Critical pressure	73815 hPa
Absolute density	1560 kg/m <sup>3</sup> ; -79 °C
Sublimation temperature	-78.5 °C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Substance has acid reaction.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

Violent to explosive reaction with (some) metal powders. Reacts with (some) bases: release of heat.

### 10.4 Conditions to avoid:

Keep away from naked flames/heat. Protect cylinders from physical damage; do not drag, roll, slide or drop.

Close container valve after each use and when empty, even if still connected to equipment.

Damaged valves should be reported immediately to the supplier.

Never attempt to transfer gases from one cylinder/container to another.

### 10.5 Incompatible materials:

(strong) bases, metal powders.

### 10.6 Hazardous decomposition products:

No data available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

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No (test) data available

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

carbon dioxide, liquefied, under pressure

No (test) data available

#### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

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## Respiratory or skin sensitisation

carbon dioxide, liquefied, under pressure

No (test) data available

### Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

carbon dioxide, liquefied, under pressure

No (test) data available

### Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

carbon dioxide, liquefied, under pressure

No (test) data available

## Mutagenicity (in vivo)

carbon dioxide, liquefied, under pressure

No (test) data available

## Carcinogenicity

carbon dioxide, liquefied, under pressure

No (test) data available

## Reproductive toxicity

carbon dioxide, liquefied, under pressure

No (test) data available

### Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

carbon dioxide, liquefied, under pressure

No (test) data available

## Chronic effects from short and long-term exposure

carbon dioxide, liquefied, under pressure

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Change in the haemogramme/blood composition. Low arterial pressure.

## SECTION 12: Ecological information

### 12.1 Toxicity:

carbon dioxide, liquefied, under pressure

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		35 mg/l	96 h	Salmo gairdneri			Literature study; Lethal

### Conclusion

pH shift

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

### 12.2 Persistence and degradability:

carbon dioxide, liquefied, under pressure

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

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

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## Conclusion

Biodegradability: not applicable

## 12.3 Bioaccumulative potential:

carbon dioxide, liquefied, under pressure

### Log Kow

Method	Remark	Value	Temperature	Value determination
		0.83		Experimental value

## Conclusion

Bioaccumulation: not applicable

## 12.4 Mobility in soil:

carbon dioxide, liquefied, under pressure

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

Value	Method	Temperature	Remark	Value determination
0.0152 atm m <sup>3</sup> /mol		25 °C		Estimated value

## Conclusion

Not applicable (gas)

## 12.5 Results of PBT and vPvB assessment:

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

## 12.6 Other adverse effects:

carbon dioxide, liquefied, under pressure

### Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006)

### 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

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

16 05 05 (gases in pressure containers and discarded chemicals: gases in pressure containers other than those mentioned in 16 05 04). Depending on branch of industry and production process, also other waste codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove waste in accordance with local and/or national regulations.

#### 13.1.3 Packaging/Container

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

15 01 04 (metallic packaging).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1 UN number:

UN number	1013
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#### 14.2 UN proper shipping name:

Proper shipping name	Carbon dioxide
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#### 14.3 Transport hazard class(es):

Hazard identification number	20
Class	2
Classification code	2A

#### 14.4 Packing group:

Packing group	
Labels	2.2

#### 14.5 Environmental hazards:

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

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Special provisions	584
Special provisions	653
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Rail (RID)

14.1 UN number:

UN number	1013
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14.2 UN proper shipping name:

Proper shipping name	Carbon dioxide
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14.3 Transport hazard class(es):

Hazard identification number	20
Class	2
Classification code	2A

14.4 Packing group:

Packing group	
Labels	2.2 (+13)

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
--	----

14.6 Special precautions for user:

Special provisions	584
Special provisions	653
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

14.1 UN number:

UN number	1013
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14.2 UN proper shipping name:

Proper shipping name	Carbon dioxide
----------------------	----------------

14.3 Transport hazard class(es):

Class	2
Classification code	2A

14.4 Packing group:

Packing group	
Labels	2.2

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
--	----

14.6 Special precautions for user:

Special provisions	584
Special provisions	653
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

14.1 UN number:

UN number	1013
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14.2 UN proper shipping name:

Proper shipping name	Carbon dioxide
----------------------	----------------

14.3 Transport hazard class(es):

Class	2.2
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14.4 Packing group:

Packing group	
Labels	2.2

14.5 Environmental hazards:

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Limited quantities	Combination packagings: not more than 120 ml per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

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

Annex II of MARPOL 73/78	Not applicable
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# carbon dioxide, liquefied, under pressure

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

14.1 UN number:

UN number	1013
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14.2 UN proper shipping name:

Proper shipping name	Carbon dioxide
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14.3 Transport hazard class(es):

Class	2.2
-------	-----

14.4 Packing group:

Packing group	
Labels	2.2

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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14.6 Special precautions for user:

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

## 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
	Not applicable (inorganic)

Plant protection products

Included in implementing Regulation (EU) No 540/2011, annex part A

#### National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
Waterbezwaarlijkheid	9

#### National legislation Germany

WGK	nwg; Classification non-water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 1)
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#### National legislation France

No data available

#### National legislation Belgium

No data available

#### Other relevant data

No data available

### 15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

## SECTION 16: Other information

#### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

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

H280 Contains gas under pressure; may explode if heated.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

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

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