

**Safety data sheet**  
**compliant with ordinance (EC) no. 1907/2006**

# Sodapop

**Product name:** Carbon dioxide  
**Revised on:** 25/04/2022  
**Number the version:** 1.2

**Replaces version number:** 1.1

## **SECTION 1: Designation of the substance respectively mixture and the company**

**1.1** Substance name/ Trade name: Carbon dioxide, liquefied gas / Sodapop gas cylinder

EC-no.: 204-696-9

CAS no.: 124-38-9

REACH Registration No.: To be found in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

**1.2** **Relevant identified use of the substance or mixture and the applications which are advised against**

**Relevant identified use** of the substance or mixture and uses advised against.

**Uses advised against** Any other use

**1.3** **Details on suppliers who provided the safety data sheet**

**Supplier**

**SODAPOP GmbH**

Senefelderstraße 44

51469 Bergisch Gladbach

Germany

**Telephone / Telefax / E-mail**

+49 2202 105-700 / +49 2202 105-750 / E-mail: [info@sodapop.com](mailto:info@sodapop.com)

**1.4** **Emergency number**

## **SECTION 2: Potential dangers**

**2.1** **Classification of the substance or mixture**

**Regulation (EC) no. 1272 / 2008**

Pressurised gases (compressed gas)

**Classification according to Directives 67/548/EEC & 1999/45/EC**

Not in Annex VI. Not classified as hazardous to health. No EC labelling required.

**Hazard statement for persons and the environment**

Refrigerated liquefied gas. Contact with the product may cause frostbite and chilblain.

**2.2** **Labelling elements**

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## Regulation (EC) no. 1272 / 2008

### Pictogram/s and signal word of the product

NOTE! Article of EC Directive 1272/2008 specifies that this pictogram does not have to be present, as the transport pictogram (see [See Section 14](#)) is used.



**Signal word:** Warning

### Hazard-determining component(s) for labelling (product identifier(s))

#### Hazard instructions

H280 contains gas under pressure; may explode if heated. A rupture disc is included in the cylinder valve to safely release the contents of the cylinder before the test pressure is reached to protect the cylinder.

#### Safety information

**Safety instructions for storage**  
P403 Store in a well-ventilated place.

**Safety instructions for disposal**  
None

**2.3 Other hazards:** Risk of suffocation at high concentrations.

## SECTION 3: Composition of / information on substances

Substance/mixture: Substance

**3.1** Substance name: Carbon dioxide, 100 %

EC-no.: 204-696-9

CAS no.: 124-38-9

**3.2 Mixture**

### Composition of / information on substances

Contains no other components or impurities that affect the classification of this product.

## SECTION 4: First-aid measures

### 4.1 Description of the first-aid measures

#### General information:

**If inhaled:** Remove affected persons from danger zone and bring to fresh air. Wear respirator. Keep affected person warm and calm. Inform emergency doctor immediately. If necessary, perform artificial respiration on persons with respiratory arrest.

**After contact with the skin:** In case of cold burns spray with water for at least 15 minutes. Apply sterile compresses. Seek medical treatment. Immediately flush eyes with water for 15 minutes.

**After contact with the eyes:** Immediately flush eyes with water for 15 minutes.

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**After being swallowed** No danger if swallowed

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

Risk of asphyxiation at high concentrations. Symptoms may include loss of mobility and unconsciousness. The affected person is usually unaware of the asphyxiation. Low concentrations of CO<sub>2</sub> may cause accelerated breathing and headache.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None

### SECTION 5: Measures for fire fighting

#### 5.1 Extinguishing agent

**Suitable extinguishing media** All known extinguishing media can be used.

**Unsuitable extinguishing media** None

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

Containers may rupture/explode due to fire. The safety device releases the entire contents to the environment.

**Hazardous combustion products:** None

#### 5.3 Instructions for fire-fighters

Remove container from danger area or cool with water from a protected position.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and methods for application during emergencies

Evacuate area. Wear respiratory protective equipment when entering the area unless the area is considered safe. Ensure sufficient ventilation.

#### 6.2 Environmental measures

Try to prevent gas leakage. Prevent entry into sewers, cellars, pits or other places, where accumulation may be dangerous.

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

Ventilate area.

#### 6.4 Reference to other sections

See also Sections 8 and 13

### SECTION 7: Handling and storage

#### 7.1 Protective measures for safe handling

##### Instructions on safe handling

Prevent water from being sucked into the container. Do not allow water to flow back into the container. Only use equipment suitable for this product and the intended pressure and temperature. In If in doubt, consult the gas supplier.

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

##### Requirements for storage rooms and containers

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Cylinders in boxes can stand upright; loose cylinders should be laid down and secured against rolling away. Cylinders should preferably be stored in open or ground-level and well-ventilated rooms. In small enclosed spaces, doors must be marked with "CAUTION. NO

VENTILATION. OPEN CAREFULLY" with letters no smaller than 25 mm.  
CO<sub>2</sub> is a heavy gas and any leakage will collect on the lowest floor and slowly fill enclosed spaces.  
Protect cylinders from direct sunlight or other sources of heat.  
Store containers at less than 50° C ambient temperature.

### 7.3 Specific end uses

Cylinder for use in commercially available beverage dispensers for beverage production. Must be used in accordance with the instructions for the beverage making equipment.  
Do not modify or remove the valve. Do not modify the cylinder.

## SECTION 8: Limitation and monitoring of exposure / personal protective equipment

### 8.1 Parameters to be monitored

ILV (EU) – 8 h – [mg/m<sup>3</sup>]: 9000  
ILV (EU) – 8 h – [ppm]: 5000  
TLV<sup>®</sup> – TWA [ppm]: 5000  
TLV<sup>®</sup> – STEL [ppm]: 30000

### 8.2 Limitation and monitoring of exposure

#### Suitable technical control equipment

Ensure sufficient ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

	Parameter	Value	Method	Comment
a)	State of aggregation	At 20° liquid gas		
b)	Colour	Colourless liquid		
c)	Odour	No odour warning		
d)	Melting point/freezing point	-56.6		
e)	Boiling point or initial boiling point and boiling range	-78.5		
f)	Flammability	Not flammable		
g)	Lower explosion limit Upper explosion limit	Non-explosive		
h)	Flash point	Not applicable		
i)	Ignition temperature	Not applicable		
j)	Decomposition temperature			
k)	pH-value			
l)	Kinematic viscosity			
m)	Solubility	2000 mg/l		
n)	Distribution coefficient n-octyl alcohol/water (log value)			
o)	Vapour pressure	At 20° 57.3 bar		
p)	Density and/or specific gravity	Relative density, gas: [Air=1]		

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		1.52 Relative density, liquid: [Water=1] 0.82		
q)	Relative vapour density			
r)	Particle properties			

\* Values refer to

n.b. = Not determined

n.z. = Not applicable

## 9.2 Other information

Gas/vapour is heavier than air. May accumulate in enclosed spaces especially on or below the ground floor.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Non-reactive under normal conditions.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None

### 10.4 Conditions to avoid

None

### 10.5 Incompatible materials

None

### 10.6 Hazardous decomposition products

None

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes according to Regulation (EC) No 1272/2008

**General** High concentrations may cause acute circulatory disturbances. Symptoms include headache, nausea and vomiting which may lead to unconsciousness.

## SECTION 12: Environmentally related information

### 12.1 Toxicity

Leakage of large quantities may contribute to greenhouse effect

Global Warming Potential GWP [CO<sub>2</sub> = 1]

## SECTION 13: Disposal instructions

### 13.1 Waste treatment methods

Do not dispose of in a place where accumulation could be hazardous. Drain in a well-ventilated place. Avoid release to atmosphere in large quantities. Contact gas supplier if advice is needed.

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## SECTION 14: Transport Information

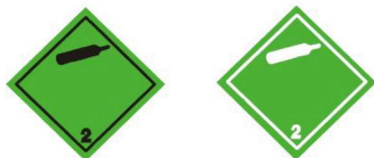
### Land transport

ADR special provision 653 applies to Sodapop cylinders with a diameter of 60 mm.

#### 14.1 UN number or ID number

UN 1013

ADR-, IMDG- IATA-marking



#### 14.2 UN proper shipping name

ADR/RID: Carbon dioxide

#### 14.3 Transport hazard classes

Transport hazard class(es) 2  
Classification code 2A

#### 14.4 Packaging group

P200

#### 14.5 Environmental hazards

None

#### 14.6 Special precautions to be taken by the user

Transport category 3

Tunnel restriction code C/E

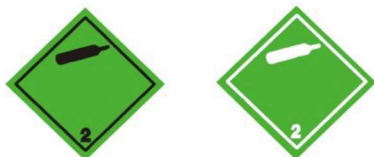
### Sea transport

IMO-IMDG

#### 14.1 UN number or ID number

UN 1013

ADR-, IMDG- IATA-marking



#### 14.2 UN proper shipping name

ADR/RID: Carbon dioxide

#### 14.3 Transport hazard classes

Transport hazard class(es) 2.2  
Classification code 2.2

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## 14.4 Packaging group

P200

## 14.5 Environmental hazards

None

## 14.6 Special precautions to be taken by the user

Emergency plans

Fire F-C

Spillage S-V

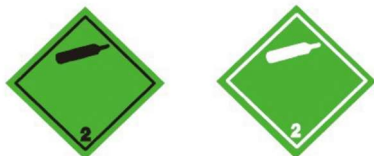
### Air transport

IMO-IMDG

## 14.1 UN number or ID number

UN 1013

ADR-, IMDG- IATA-marking



## 14.2 UN proper shipping name

ADR/RID: Carbon dioxide

## 14.3 Transport hazard classes

Transport hazard class(es) 2.2

Classification code 2.2

## 14.4 Packaging group

200 (Passenger and Cargo Aircraft)

## 14.5 Environmental hazards

None

## 14.6 Special precautions to be taken by the user

Do not transport in vehicles whose cargo compartment is not separated from the driver's cab.

The driver must know the possible hazards of the load and what to do in the event of an accident or emergency.

Before transporting, ensure that the containers are securely fastened.

Ensure all cylinders are protected from sun/heat, covered and secured.

Ensure sufficient ventilation.

Ensure that the applicable regulations are complied with.

## SECTION 15: Legal regulations

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

Seveso Directive 96/82/EC: Not applicable.

### 15.2 Substance designation

A Chemical Safety Assessment does not need to be carried out for this product. Exposure data are provided elsewhere in this safety data sheet. An instruction manual is included with each product.

## SECTION 16: Other information

All national/local regulations must be complied with.

The risk of suffocation is often overlooked and must be emphasised during training. Ensure storage areas are adequately ventilated. Contact with liquid CO<sub>2</sub> can lead to frostbite/chilblain. Quickly drained cylinders can get very cold, so be sure to wear protective gloves.

Do not inhale the gas.

Protect cylinders from direct sunlight or other sources of heat. Store containers at less than 50° C ambient temperature.

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Store cylinders securely in boxes and prevent them from rolling around or falling on storage staff.

Do not throw or compress the cylinders.

Ensure that the packaging is kept dry.

The cylinders are heavy; lift boxes carefully to avoid back injury.

This safety data sheet supersedes previous editions in accordance with 91/155/EEC.

**Notes**

This document has been prepared with care, but no liability can be accepted for injury or damage arising from its use. The information in this document was believed to be correct at the time of printing.

**Additional information**

Note: This document should be read carefully because the decimal point and its position comply with the rules for the construction and elaboration of international standards and appear as a comma in the line. For example: 2.000 represents two (with three decimal places) and not two thousand, while 1,000 represents one thousand and not one (with three decimal places).

**End of document**

**Changes from the last version:**

See sections/subsections: none