

SodaStream Carbon Dioxide cylinder.

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Issue date: June 2011

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

1.1. Product identifier Product name Carbon dioxide, liquefied gas.

Trade name SodaStream gas cylinder

EC No (from EINECS): 204-696-9 **CAS No:** 124-38-9

Chemical formula CO₂

REACH Registration number:

Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

1.2. Relevant identified uses of the substance and uses advised against

Relevant identified uses Carbonation of water in SodaStream machine.

Uses advised against Any other use.

1.3. Details of the supplier of the safety data sheet

Company identification Soda-Club (Europe) Ltd, 3 The Manorgrove Centre, Vicarage Farm Road, Peterborough.
PE1 5UH.

Tel. 01733-296947

E-Mail Address Graham.Brooks@sodastream.com

1.4. Emergency telephone number 07717 340107

SECTION 2: Hazards identification

2.1. Classification of the substance

Classification according to Regulation 1272/2008/EC (CLP/GHS)

Gases under pressure (Compressed gas)

Classification according to Directive 67/548/EEC & 1999/45/EC

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

Risk advice to man and the environment

Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite.

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

- Hazard Pictograms



- Signal word Warning

- Hazard Statements

H280 Contains gas under pressure; may explode when heated. The cylinder valve however contains a bursting disc designed to safely release the contents of the cylinder to atmosphere before the test pressure is reached, thus protecting the cylinder.

- Precautionary Statements

Precautionary Statement Storage

P403 Store in a well-ventilated place.

Precautionary Statement Disposal

Return to supplier.

Labelling Regulation EC 67/548 or EC 1999/45

Symbol(s) None

R Phrase(s) None

S Phrase(s) None

2.3. Other hazards

Asphyxiant in high concentrations.

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SECTION 3: Composition/information on ingredients.

Substance / Mixture: Substance.

3.1. Substances

Carbon dioxide, 100%

CAS No: 124-38-9

Index-Nr.: -

EC No (from EINECS): 204-696-9

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

3.2. Mixtures

Contains no other components or impurities which will influence the classification of the product.
Full text of R-phrases – see chapter 16

SECTION 4: First aid measures.

4.1. Description of first aid measures

First Aid Inhalation: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

First Aid Skin / Eye: In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. Immediately flush eyes thoroughly with water for at least 15 minutes.

First Aid Ingestion: Ingestion is not considered a potential route of exposure.

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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Low concentrations of CO₂ cause increased respiration and headache.

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

None.

SECTION 5: Fire fighting measures.

5.1. Extinguishing media

Suitable extinguishing media
All known extinguishants can be used.

5.2. Special hazards arising from the substance or mixture

Exposure to fire may cause containers to rupture/explode. Safety device releases all contents to atmosphere.

Hazardous combustion products

None.

5.3. Advice for fire-fighters

Move container away or cool with water from a protected position.

Special protective equipment for fire-fighters

In confined space use self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions

Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.

6.2. Environmental precautions

Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3. Methods for containment and cleaning up

Ventilate area.

6.4. Reference to other sections

See also sections 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Suck back of water into the container must be prevented. Do not allow back feed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

7.2. Conditions for safe storage.

Boxed cylinders may be stood upright, loose cylinders should be laid horizontally and prevented from rolling. Cylinders should preferably be stored in open or ground level ventilated areas. If in a small closed room, the doors should be marked with "WARNING. NO VENTILATION. OPEN WITH CAUTION" in letters not less than 25mm high.

CO₂ is a heavy gas and any leakage will gather on the lowest level and slowly fill up a closed room. Store cylinders away from direct sunlight or other sources of heat. Store in an ambient temperature below 50°C

7.3. Specific end use(s)

Cylinders for use in SodaStream drinks making equipment. Should be used in accordance with the instructions for the drinksmaker. Do not tamper with or remove the valve. Do not tamper with the cylinder.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit value

ILV (EU) - 8H - [mg/m³] : 9000
ILV (EU) - 8H - [ppm] : 5000
TLV© - TWA [ppm] : 5000
TLV© - STEL [ppm] : 30000

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Physical state at 20°C: Liquefied gas
Appearance/Colour: Colourless liquid.
Odour: No odour warning properties.
Melting point: -56,6 °C
Boiling point: -78,5 °C
Sublimation point: -78,5 °C
Critical temperature: 30°C
Flash point: Not applicable.
Flammability: Non flammable.
Vapour Pressure 20°C: 57.3 bar
Relative density, gas: [air=1] 1,52
Relative density, liquid: [water=1] 0,82
Solubility in water: 2000 mg/l
Autoignition temperature: Not applicable.
Explosive properties: Not explosive
Oxidising properties: Not applicable.

9.2. Other information

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

Unreactive 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

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

General In high concentrations may cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.

SECTION 12: Ecological information

12.1. Toxicity

When discharged in large quantities may contribute to the greenhouse effect.

Global Warming Potential GWP [CO₂ = 1]
1

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge into any place where its accumulation could be dangerous. Vent to atmosphere in a well ventilated place. Discharge to atmosphere in large quantities should be avoided. Contact supplier if guidance is required.

SECTION 14: Transport information

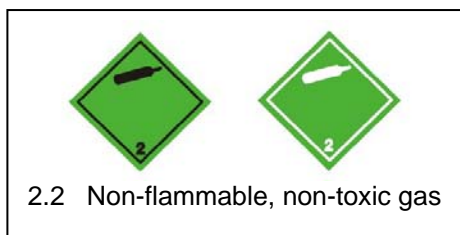
Land transport

ADR Special Provision 653 applies to diameter 60mm SodaStream cylinders.

ADR/RID

14.1. UN number UN 1013

Labelling ADR, IMDG, IATA



14.2. ADR, UN proper shipping name Carbon dioxide

14.3. Transport hazard class(es) 2
Classification code 2A

14.4. Packing group (Packing Instruction) P200

14.5. Environmental hazards None

14.6. Special precautions for user
Transport category 3
Tunnel restriction code C/E

Sea transport

IMO-IMDG

14.1. UN number UN 1013

14.2. UN proper shipping name Carbon dioxide

14.3. Transport hazard class(es) Class 2.2
Label: 2.2

14.4. Packing group (Packing Instruction) P200

14.5. Environmental hazards None.

14.6. Special precautions for user
Emergency schedules
Fire F-C
Spillage S-V

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Air transport

IATA

- 14.1. **UN number** UN 1013
- 14.2. **UN proper shipping name** Carbon dioxide.
- 14.3. **Transport hazard class(es)** Class: 2.2
Label: 2.2
- 14.4. **Packing group (Packing Instruction)** 200 (Passenger and cargo aircraft)
- 14.5. **Environmental hazards** None

14.6. Special precautions for user

Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
Before transporting product containers ensure that they are firmly secured.
Ensure all cylinders are protected from sun/heat, are covered and secure.
Ensure adequate ventilation.
Ensure compliance with applicable regulations.

SECTION 15: Regulatory information

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

Seveso Directive 96/82/EC: Not applicable.

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product. Exposure data is included elsewhere in this SDS. Usage instructions are supplied with each product.

SECTION 16: Other information

Ensure all national/local regulations are observed.
The hazard of asphyxiation is often overlooked and must be stressed during operator training. Ensure storage areas are ventilated.
Contact with liquid CO₂ can cause cold burns/frostbite. Rapidly discharged cylinders can become very cold and protective gloves should be worn.
Do not breathe the gas.
Store cylinders away from direct sunlight or other sources of heat. Store in an ambient temperature below 50°C.
Store the cylinders securely in boxes to prevent them rolling or falling on warehouse personnel.
Do not throw or impact the cylinders.
Ensure packaging is kept dry.
Cylinders are heavy; care should be taken to lift the boxes correctly to avoid back injuries.

This Safety Data Sheet replaces previous issues compiled in accordance with 91/155/EEC.

Advice

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted. Details given in this document are believed to be correct at the time of going to press.

Further information

Note: When using this document care should be taken, as the decimal sign and its position complies with rules for the structure and drafting of international standards, and is a comma on the line. As an example 2,000 is two (to three decimal places) and not two thousand, whilst 1.000 is one thousand and not one (to three decimal places).

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