

# MSDS for Soda-Club/SodaStream USA/Canada CO<sub>2</sub> Cylinders

Issue 08

Edited on: 28<sup>th</sup> October 2010

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Trade Name: **SodaStream/Soda-Club / Alco<sub>2</sub>Jet Carbon Dioxide Cylinder.**

## 1 Substance / Name of Preparation and Company

### **Data regarding the Product: Carbon Dioxide Cylinder**

Trade Name: Soda-Club / SodaStream/ Alco<sub>2</sub>Jet Carbon Dioxide Cylinder.

Producer: Aluminum Cylinder;  
SodaStream Industries Ltd.  
Airport –City, P.O.B 280  
Ben - Gurion Airport , 70100  
Israel  
Tel. ++ 972-3- 9762323  
Fax. ++972-3- 9736673

Distribution in USA: SodaStream USA, Inc.  
One Mall Drive,  
Suite 905  
Cherry Hill, NJ 08002,  
USA  
Tel. +1 856 755 3400  
Fax. +1 856 667 7826

Distribution in Canada: SodaStream Canada  
Eco Stream  
120-1821 Wellington Avenue  
Winnipeg, MB  
R3H 0G4  
Canada  
Tel. +1 204 415 0755  
Fax. +1 204 772 2082

Emergency Information: For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC **800-424-9300**. For ALL other inquiries about this product, call Soda-Club USA, Inc. on 800-763-2258

## 2 Compound / Details regarding the ingredients

Description: Pressurized CO<sub>2</sub> gas cylinder containing beverage quality CO<sub>2</sub>.

Hazardous ingredients: Liquefied CO<sub>2</sub> 99.9%

Chemical Name: Carbon Dioxide

UN Number: 1013

Use: for carbonating water for beverages.

TDG Class: 2.2 (Canada)

## 3 Possible Dangers

Designation of Danger: Asphyxiant

Special reference regarding danger for humans and environment: Gas cylinder is under pressure. Keep away from heat sources and handle carefully. Do not tamper with the valve!

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## **4 First Aid Measures**

General remarks: All information regarding First Aid refers to an accident, during which large amounts of carbon dioxide escape from pressurised gas cylinders.

In case of inhalation: Remove the person in question from the danger zone and take him to an area with fresh air. Ensure use of protection measures for rescue personnel. Carbon dioxide has a suffocating effect. Resuscitate persons with respiratory standstill. Call emergency doctor immediately.

In case of skin contact: Skin contact with carbon dioxide snow can cause serious frostbite. Thaw affected spot with cold water and apply sterile bandage to it. Go to see a doctor immediately.

In case of swallowing: Not probable.

In case of eye contact: Flush eyes with running water (continuing for up to 15 minutes) and get immediate medical attention.

Remarks for the doctor: Treat symptomatically. In case of local effects of carbon dioxide snow, dry treatment as in the case of frostbite.

Frozen tissues should be flooded or soaked with tepid water (105°-115°F; 41°-46°C). DO NOT USE HOT WATER. Cryogenic burns which result in blistering or deeper tissue freezing should be seen promptly by a physician.

## **5 Fire extinguishing measures**

Applicable extinguishing substances: Non-flammable.

For security reasons inappropriate extinguishing substances: None

Special hazards: When heated, safety device on Carbon dioxide cylinder can release all of the CO<sub>2</sub>.

Carbon dioxide is an extinguishing agent for Class B & C fires.

## **6 Measures in case of involuntary release**

Precautions against personal injuries: If the gas cylinder empties quickly, it can cool down to very low temperatures. Wait several minutes before touching the cylinder and other frozen items because of the danger of frostbite. Wear proper protective clothing and self contained breathing apparatus in the presence of leaking gas.

Evacuate area. Ventilate area

Measures for environmental protection: This product does not pose an environmental threat.

Means for cleaning / wiping: Not applicable to CO<sub>2</sub>.

Additional remarks: In case of gas leakage provide good ventilation. (Danger of suffocation in closed spaces). Carbon dioxide is heavier than air and collects on the floor (especially dangerous for small children and pets).

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## **7 Handling and Storage**

### **Handling**

Do not tamper with the gas cylinder valve!

Remarks regarding fire and explosion protection: Do not overheat.

### **Storage**

Special requirements for storage spaces and containers:

Store dry and cool. Store in well ventilated spaces away from direct sunlight or sources of direct heat. Store cylinders in boxes to prevent them from rolling.

Cylinders should not be exposed to temperatures above 50°C.

Protect cylinders from physical damage. Full and empty cylinders should be segregated. Use a "first in - first out" inventory system to prevent full cylinders being stored for excessive periods of time.

## **8 Limitation of exposure and personal protective equipment**

### **Ingredients with working place related value limitations**

#### **THRESHOLD LIMIT VALUE**

TLV = 5000 ppm 8 hours

TLV-STEL (Short Term Exposure Limit) = 15000 ppm (1.5% by vol.) 15 minutes.

Additional remarks: Carbon dioxide has a suffocating effect and is odorless. Carbon dioxide is heavier than air and collects on the floor.

### **Personal protective equipment**

Breathing protection: Use self-contained breathing apparatus in oxygen-deficient atmospheres or where carbon dioxide exceeds 1.5%. **CAUTION!** Filter respirators will not function. Use may result in asphyxiation.

Hand protection: Loose fitting gloves of impermeable material such as leather when working with cold cylinders.

Eye protection: Safety glasses are recommended when handling high-pressure cylinders and in areas where vapors are discharged.

Body protection: not required

## **9 Physical and chemical features**

All data refers to carbon dioxide.

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### **Appearance:**

Form: gas

Color: colorless

Smell: odorless

Carbon dioxide is colorless and odorless as gas or liquid. It is stored in containers under its own vapor pressure. If the pressure is suddenly relieved, the liquid rapidly cools as it evaporates and sublimates, forming dry ice at -109.3°F (-78.5°C)

### **Security related data:**

Melting point / Melting range: sublimated at -109.3°F (-78.5°C)

Point of ignition : no data

Fire supporting features: extinguishes fire

Density at 32°F (0°C): 96.26g/l of 100% concentration of gas

Specific volume at normal atmospheric pressure: 0.547m<sup>3</sup> (547 litres)/kg at 70°F (21.1°C)

Solubility in water: 0.91 at 68°F (20°C)

## **10 Stability and Reactivity**

All data relate to carbon dioxide cylinders

Conditions to be avoided: heat, direct sunlight, blows, shock

Substances to be avoided: the product is inert.

Hazardous decomposition products: none

## **11 Toxicological Details**

### **Toxicological Examinations:**

All data relate to carbon dioxide

#### Acute toxicity:

Inhalation of this product may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation. Lethal effect beginning at a concentration of 8-10% in the air.

Irritating / Caustic effect: None

Sensitization: None

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Carbon dioxide is a minor but important constituent of the atmosphere, averaging about 0.03% or 300 ppm by volume. At higher concentrations it affects the respiratory rate. Additional symptoms are described below: Carbon dioxide does not support life and may produce immediately hazardous atmospheres. At high concentrations, carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death. Symptoms of exposure in the concentration ranges of 1.5-5% may be highly variable, but typical symptoms of carbon dioxide intoxication include the following:

| CO <sub>2</sub> Concentration | Symptoms   |
|-------------------------------|--|
| 3-6%                          | headaches, dyspnea, perspiration   |
| 6-10%                         | headache, dyspnea, perspiration, tremors, visual disturbance, unconsciousness, death |
| Over 10%                      | unconsciousness, death. Consciousness is lost after 5 to 10 minutes.                 |

Carcinogenic, genetic or fertility impairing effects: None

Other details: Carbon dioxide has a suffocating effect.

### **12 Ecological Information**

The product is completely harmless biologically. Carbon dioxide is a “Greenhouse gas” and contributes to global warming.

Water endangering class: generally not hazardous to water quality. Carbon dioxide may dissolve in water to form a weak acid called carbonic acid.

### **13 Remarks regarding disposal**

**Product:**

Recommendation: Do not attempt to dispose of residual carbon dioxide in compressed gas cylinders. Return to manufacturer or distributor for disposal.

### **14 Information regarding Transport**

**Transport on Land**

ADR/TDGR/49cfr172.101    Class: 2    Hazard class: 2.2    Label code: 2.2

Proper shipping name: **Carbon Dioxide**

Description for transport documents : **UN 1013 Carbon Dioxide 2.2**

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### **15 Regulations**

Design codes: 49cfr178.46 (DOT-3AL-1800 cylinder specification)  
CAN/CSA-B339-02 (TC-3ALM-124 cylinder specification)

#### **15.1 Identification:**

Approval # CA1999060006 for DOT-3AL-1800 aluminium cylinders.  
Approval # TC 217 for TC-3ALM-124 aluminium cylinders.  
Registration # M-9903 marked on each cylinder

#### **National Regulations:**

Soda-Club/SodaStream carbon dioxide cylinders conform to Department of Transportation (DOT) and Canadian Transport of Dangerous Goods Regulations where marked on the cylinders.

### **16 Other Information**

High concentration levels of CO<sub>2</sub> discharged from single cylinders is unlikely to occur in other than extremely confined locations.

The information is based on our present level of knowledge. It does not present any assurance of product features, and does not represent any legal relationship.

#### **DISCLAIMER**

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