

SodaStream Carbon Dioxide Cylinder.

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	uct name	Carbon dioxide, liquefied gas.	
Product identifier Product name Trade name			
		SodaStream gas cylinder	
EC No (from EINECS): 204-696-9		CAS No: 124-38-9	
		CO ₂	
REACH Registration nu Listed in Annex IV/V of R		07/2006 (REACH), exempted from registration.	
Relevant identified use Relevant identified use		nd uses advised against Carbonation of water in SodaStream machine.	
Uses advised against		Any other use.	
,	ribution in USA:	SodaStream USA, Inc. 200 East Park Drive Suite 600 Mount Laurel, NJ 08054 USA Tel. +1 856 755 3400 Fax. +1 856 667 7826	
<u>Distr</u>	<u>ribution in Canada</u> :	<u>SodaStream Canada Ltd</u> 5450 Explorer Drive, Suite 202 Mississauga, ON L4W 5N1 Canada	
		Tel. +1 905 629 4450 Fax. +1 877 561 7598	
Emergency telephone r	number	Tel. +1 905 629 4450	
SECTION 2: Hazard	ds identification	Tel. +1 905 629 4450 Fax. +1 877 561 7598	
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SECTION 2: Hazard Classification of the su Classification Precautionary statemen Hazard Pictogram - Signal word	ds identification bstance Gases under pres nt Liquefied gas. Co Warning Contains gas unde designed to safely protecting the cylin May displace oxyge ents ent Storage	Tel. +1 905 629 4450 Fax. +1 877 561 7598 Chemtrec 800-424-9300 ssure (Compressed gas), asphyxiant. ontact with product may cause cold burns or frostbite.	
SECTION 2: Hazard Classification of the su Classification Precautionary statemen Hazard Pictogram - Signal word - Hazard Statements	ds identification <u>ibstance</u> Gases under pres It Liquefied gas. Co Warning Contains gas unde designed to safely protecting the cylin May displace oxyge ents ent Storage Protect from sun	Tel. +1 905 629 4450 Fax. +1 877 561 7598 Chemtrec 800-424-9300 soure (Compressed gas), asphyxiant. ontact with product may cause cold burns or frostbite.	



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SECTION 3: Compos Substance / Mixture:	Substance.
Substances	Carbon dioxide, CO_2 , greater than 99.9% pure.
CAS No: EC No (from EINECS): REACH Registration num	124-38-9 204-696-9 ber :
	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.
<u>Mixtures</u>	Contains no other components or impurities which will influence the classification of the product.
SECTION 4: First aid	
First Aid Inhalation:	Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim
First Aid Skin / Eye:	warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. 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.
Most important symptoms	s 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 CO ₂ cause increased respiration and headache.
Indication of any immedia	ate medical attention and special treatment needed Dizziness or drowsiness. Difficult or rapid breathing. Any signs of frostbite.
SECTION 5: Fire figh Extinguishing media Suitable extinguishing me	-
	All known extinguishants can be used for the surrounding fire. Carbon dioxide is non-flammable but heated the bursting discs may rupture to release all of the contained CO ₂ .
Special hazards arising fr	rom the substance Exposure to fire may cause containers to rupture/explode. Safety device releases all contents to atmosphere.
Hazardous combustion p	roducts None.
Advice for fire-fighters	Move container away or cool with water from a protected position.
Charles protoctive equipm	nent for fire-fighters In confined space use self-contained breathing apparatus.
Special protective equipit	in commed space use sen-contained breathing apparatus.
	ital release measures
SECTION 6: Acciden	
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SECTION 6: Acciden Personal precautions Environmental precaution Methods for containment	 atal release measures Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere proved to be safe. Ensure adequate air ventilation. as Try to stop release. Prevent from entering sewers, basements and workpits, or any place where i accumulation can be dangerous. and cleaning up Ventilate area.

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Precautions for safe	dling and storage handling
	Do not allow back feed of water 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. Do not throw cylinders or allow them to drop onto hard surfaces.
Conditions for safe s	torage.
	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. CO ₂ 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
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 <u>Control parameters</u> Exposure limit value

Exposure Limit						
Component	Result	ACGIH	Canada Ontario	Canada Quebec	NIOSH	OSHA
Carbon	STEL	30000 ppm STEL	30000 ppm STEL	30000 ppm STEL 54000 mg/m ³ STEV	30000 ppm STEL 54000 mg/m ³ STEL	Not established
Dioxide	TWA	5000 ppm TWA	5000 ppm TWA	5000 ppm TWA 9000 mg/m ³ TWAEV	5000 ppm TWA 9000 mg/m ³ TWA	5000 ppm TWA 9000 mg/m ³ TWA

Exposure controls

Appropriate engineering controls Ensure adequate natural or forced ventilation.

Personal Protective Equipment

Use a NIOSH/MSHA or European standard EN 149 approved respirator if exposure limits are exceeded or inadequate ventilation is apparent. Wear eye and feet protection. Wear leather or insulated neoprene gloves when handling cylinders.

SECTION 9: Physical and chemical properties Information on basic physical and chemical properties

General information			
Physical state at 20°C:	Liquefied gas in a cylinder, gas when not pressurised.		
Appearance/Colour:	Colourless liquid or gas.		
Odour:	No odour warning properties. Some may detect a pungent odour and biting taste.		
Odour threshold	Not applicable		
рН	3.7 as carbonic acid		
Melting point:	-70°F (-56,6 °C)		
Boiling point:	-109,3°F (-78,5 °C)		
Sublimation point:	-109,3°F (-78,5 °C)		
Critical temperature:	86°F (30°)C		
Flash point:	Not applicable.		
Flammability:	Non flammable.		
Evaporation rate	High		
Vapour Pressure 20°C:	57,3 bar		
Relative density, gas: [air=1]	1,52		
Relative density, liquid: [wa	ter=1] 0,82		
Solubility in water:	2000 mg/l		
Decomposition temperature	e Not available		
Autoignition temperature:	Not applicable.		
Explosive properties:	Not explosive		
Oxidising properties:	Not applicable.		
Viscosity	Not applicable		
Other information	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.		
Hazardous decomposition	products None		

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SECTION 10: Stability and reactivity			
Reactivity	Unreactive under normal conditions.		
Chemical stability Stable	e under normal conditions.		
Possibility of hazardous	reactions		
	None		
Conditions to avoid	None		
Incompatible materials	Dusts of various metals such as magnesium, zirconium, titanium, aluminium, chromium and manganese are ignitable and explosive when suspended in carbon dioxide.		
SECTION 11: Toxico	ological information		
General	Likely routes of exposure are inhalation and skin and eye contact. Ingestion is considered an unlikely route of exposure because under normal conditions carbon dioxide is encountered in gaseous form.		
Inhalation.	In high concentrations may cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.		
Carbon			
Dioxide Concentration	EFFECTS		
Inhaled			
1%	Breathing rate increases slightly.		
2%	Breathing rate increases to 50% above normal level. Prolonged exposure can cause headache, tiredness.		
3%	Breathing increases to twice normal rate and becomes labored. Weak narcotic effect. Impaired hearing, headache, increased blood pressure and pulse rate.		
4–5%	Breathing increases to approximately four times normal rate, symptoms of intoxication become evident, and slight choking may be felt.		
5–10%	Characteristic sharp odor noticeable. Very labored breathing, visual impairment, headache, and ringing in the ears. Judgment may be impaired, followed within minutes by loss of consciousness.		
10–100%	Unconsciousness occurs more rapidly above 10% level. Prolonged exposure to high concentrations may eventually result in death from asphyxiation.		
<u>Skin/eye contact.</u>	No harm expected from carbon dioxide gas. Cold gas from a discharging cylinder, liquid or solid carbon dioxide (dry ice) may cause severe frostbite.		
Effects of repeated of	exposure. No harm expected from repeated exposure to gas.		
Acute dose effects.	LC _{Lo} = 90.000ppm, 5 minutes, human.		
Carcinogenicity	Carbon dioxide is not listed by NTP, OSHA or IARC.		



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Environmental hazards

None.

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SECTION 12: Ecological i	nformation		
Toxicity When dischar	When discharged in large quantities, CO ₂ may contribute to the greenhouse effect. Carbon dioxide readily absorbs into water. Fish toxicity: 150000µg/L 48 days (mortality) Brown Trout.		
Global Warming Potential GWP	[CO ₂ = 1] 1		
Ozone-depletion Carbon dioxide is not an ozone-depleting chemical.			
Persistence and degradability	Not applicable		
Mobility in soil	Not applicable		
Other adverse effects	No adverse ecological effects are expected.		
atm not	not discharge into any place where its accumulation could be dangerous. If necessary, vent to nosphere in a well ventilated place. Discharge to atmosphere in large quantities should be avoided. Do cut or incinerate cylinders. turn cylinders to supplier.		
Land transport			
UN number UN Label code 49cfr172.101, , IMDG,	1013 IATA		
	2.2 Non-flammable, non-toxic gas		
DOT-SP 20796	N 1013		
UN proper shipping name	Carbon dioxide		
Transport hazard class(es)	2.2		
Packing group	not applicable		
Environmental hazards	None		
<u>Sea transport</u> IMO-IMDG <u>UN number</u>	UN 1013		
UN proper shipping name	Carbon dioxide		
Transport hazard class(es)	Class 2.2 Label: 2.2		
Packing group (Packing Instruc	<u>tion)</u> P200		



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	u ser s	
Fire		F-C
Spillage		S-V
Air transport		
UN number		UN 1013
UN proper shipping name	2	Carbon dioxide.
Transport hazard class(e	<u>s)</u>	Class: 2.2 Label: 2.2
Packing group (Packing I	nstruction)	200 (Passenger and cargo aircraft)
Environmental hazards		None
	n.	ensure that they are firmly secured. sun/heat, are covered and secure. Ilations.
SECTION 15: Regula	atory infor	mation
Cylinder design codes:		.46; 178.69; 178.70; 178.71 (DOT-3AL-1800 and UN ISO 7866 cylinder specification) A-B339-02 (TC-3ALM-124 cylinder specification)
15.1 Identification:	DOT-SP	
		l # TC 217 for TC-3ALM-124 aluminium cylinders. tion # M-9903 marked on each cylinder
National Regulations: SodaStream/Soda-Club ca Goods Regulations where r	Registrat	tion # M-9903 marked on each cylinder cylinders conform to Department of Transportation (DOT) and Canadian Transport of Dangerous

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SECTION 16: Other information

This is issue 10 of the safety Data Sheet dated February 2015. It replaces the previous issue 9 dated 4th July 2013.

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 CO_2 can cause cold burns/frostbite. Rapidly discharged cylinders can become very cold and protective gloves should be worn. Do not breathe the gas.

High concentration levels of CO₂ discharged from single cylinders are unlikely to occur in other than extremely confined locations.

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.

Advice

While 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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