



Section 1. Product and Company Identification.

1.1 Model Number; CO2/100 v1
1.2 Description; Gas Cylinder Disposable Carbon Dioxide 390g
Quantity of a solution/mixture: Carbon Dioxide 390g

1.3 Manufacturer;
Sealey Group.
Kempson Way,
Bury St. Edmunds,
Suffolk.
IP32 7AR

1.4 Emergency telephone number; 44 (0) 1284 757 500 (Office Hours)

Date of source compilation; 12/01/2015

Section 2. Hazards Identification.

2.1 Classification of the substance or mixture.
No data available

2.2 Label elements.
Hazard pictogram(s)



Signal Word. Warning.

Hazard statements;
H280: Contains gas under pressure, may explode if heated.

Precautionary statements;
P410 + P403: Protect from sunlight. Store in a well ventilated place.
P412: Do not expose to temperatures exceeding 50°C/122°F
P244: Keep reduction valves free from grease and oil.

2.3 Other hazards.
Asphyxiant in high concentrations..



Section 3. Substances.

3.1 Chemical Name (substance)	3.1 CAS No.	3.2 Concentration Weight	Classification	
			Hazard Class & Category Code	Hazard Statements ¹
Carbon Dioxide	124-38-9	> 99.99%	-	-

¹For full text of Statements, see Section 16.

Section 4. First Aid Measures.

4.1 Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Remove/Take off immediately all contaminated clothing.

Eye Contact

Immediately wash for at least 15 minutes.

Immediately seek medical advice.

Ingestion

Not a primary route of exposure.

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

No data available.

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

No data available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media

All known extinguishing media can be used.

5.2. Special hazards arising from the substance or mixture

Fire exposure can cause an explosion or a burst of the cylinder.

5.3. Advice for fire-fighters

Wear complete equipment with eye shield helmet and neck protection.

Pressure or demand breathing apparatus.



Section 6. Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing apparatus to enter the contaminated area.

Evacuate the area and ensure proper ventilation.

Wear protective equipment to avoid skin, eye contact and inhalation. Protect personal clothes.

Risk of suffocation where there is a release in a restricted area with poor ventilation. Wear breathing apparatus.

6.2. Environmental precautions

Prevent from entering sewers, basements, excavations and work pits. Accumulations can be hazardous to health.

6.3. Methods and material for containment and cleaning up

No procedures are necessary.

6.4. Reference to other sections

See Section 7 for information on Safe Handling

See Section 8 for information of Personal Protective Equipment.

See Section 13 for information on disposal.

Section 7. Handling and Storage.

7.1. Precautions for safe handling

Avoid direct contact with the product.

Do not eat, drink or smoke in the working areas.

For container handling, use proper personal protective equipment safety shoes and gloves.

Handle containers carefully, avoid violent collisions between or against other surfaces, prevent falls and mechanical strains.

Do not allow back feed into the cylinder.

Do not completely empty the cylinder.

Prevent water from being sucked backed into the cylinder.

7.2. Conditions for safe storage, including any incompatibilities

Pressurised containers must not be directly exposed to sunlight.

Pressurised containers must not be exposed to heat sources or temperatures in excess of 50°C.

Ensure proper ventilation (natural or forced) where carbon dioxide is stored and/or used.

7.3. Specific end use(s)

Intended for use the gas cylinder for the Model Number identified in 1.1 with Description stated in 1.2.



Section 8. Exposure Controls/Personal Protection.

8.1. Control parameters

Workplace exposure limits.

Substance	CAS number	Workplace exposure limit.			
		Long term.		Short term.	
		ppm	mg.m ³	ppm	mg.m ³
Carbon Dioxide	124-38-9	5000	9150	15000	27400

8.2. Exposure controls

Appropriate Engineering Controls

No data available.

Eye/Face Protection

Use safety glasses and face shield.

Skin Protection

Use gauntlet.

Respiratory Protection

No other protection devices are necessary in normal conditions or well ventilated working areas.

In case of release, please refer to 6.1

Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties

The following information is not a technical specification or sales specification.

(a) Appearance:	Colourless gas
(b) Odour:	Odourless
(c) Odour threshold;	No data available.
(d) pH:	3.7 (for carbonic acid)
(e) Melting point/freezing point;	Sublimation point: -78.5°C
(f) Initial boiling point and boiling range;	Sublimation point: -78.5°C
(g) Flash point;	No data available.
(h) Evaporation rate;	High
(i) Flammability (solid, gas);	No data available.
(j) Upper/lower flammability or explosive limits;	No data available.
(k) Vapour pressure;	57.3 bar (20°C)
(l) Vapour density;	762 kg/m ³ (liquid density)
(m) Relative density;	1.52 gas (air = 1) 1.03 liquid (air = 1)
(n) Solubility (ies);	2000 mg/l (15°C)
(o) Partition coefficient: n-octanol/water;	No data available.
(p) Auto-ignition temperature;	No data available.
(q) Decomposition temperature;	No data available.
(r) Viscosity;	No data available.
(s) Explosive properties;	No data available.
(t) Oxidising properties.	No data available.

9.2 Other information

No data available.



Section 10. Stability and Reactivity.

10.1. Reactivity	The product is reactive with some substances, for example: ammonia or amines.
10.2. Chemical stability	Stable under normal use and storage conditions.
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to avoid	Avoid the storage of the product in confined areas
10.5. Incompatible materials	No data available.
10.6. Hazardous decomposition products	No data available.

Section 11. Toxicological Information.

11.1. Information on toxicological effects	No data available
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Section 12. Ecological Information.

12.1. Toxicity	No data available
12.2. Persistence and degradability	No data available
12.3. Bioaccumulative potential	Low
12.4. Mobility in soil	No data available
12.5. Results of PBT and vPvB assessment	No data available
12.6. Other adverse effects	No data available

Section 13. Disposal Considerations.

13.1. Waste treatment methods	Disposal must be in accordance with local authority regulations.
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Section 14. Transport Information.

ADR. International Carriage of Dangerous Goods by Road.

14.1. UN number	UN 1013
14.2. Name and Description	Carbon dioxide
14.3. Transport hazard class(es)	2
14.4. Packing group	-
14.5. Environmental hazards	Does not present an environmental hazard.
14.6. Special precautions for user	No special precautions necessary.

IATA. International Air Transport Association.

Do not transport by air

IMDG. International Maritime Dangerous Goods.

14.1. UN number	UN 1013
14.2. UN proper shipping name	Carbon dioxide
14.3. Transport hazard class(es)	Division 2.2
14.4. Packing group	-
14.5. Environmental hazards	Does not present an environmental hazard.
14.6. Special precautions for user	No special precautions necessary.
14.7. Transport in bulk – Maritime only.	Bulk transport is not applicable to this product



Section 15. Regulatory Information.

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

No data available

15.2. Chemical safety assessment

No data available

Section 16. Additional Information.

Full text of Phrases and Statements used in Section 3;

The above information is believed to be accurate and represents the best information currently available.

No warranty is expressed or implied by the above information.

We assume no liability resulting from use of the above information.

The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.

Issue level	Date	Revisions
1	23/07/15	First issue.
2	13/07/16	Sections 1, 2, 3, 14 & 16.
3	24/02/17	Sections 4 & 13.
4	01/07/21	Section 8 & 14

End of Safety Data Sheet.