

**Transportation Information**
**UN Number:** 1013


United States of America



Canada



Mexico

**Formula**
 $\text{CO}_2$ 
**MSDS Reference**

P-4574

**CAS Number**

124 - 38 - 9

**General Description**

Colorless, odorless, nonflammable, slightly acidic, liquified gas.

Shipping Name	United States of America	Canada	Mexico
Carbon Dioxide	Carbon Dioxide	Carbon Dioxide	Carbon Dioxide
Hazard Class	2.2	2.2	2.2
Label	Nonflammable Gas	Nonflammable Gas	Nonflammable Gas

**Product and Package Information**

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content	Regulator Recommendations See Section F, Page 1
CD 5.5LS	5.5 LaserStar	99.9995 % O <sub>2</sub> < 5 ppm H <sub>2</sub> O < 0.5 ppm THC < 10 ppb Halocarbons < 100 ppt	AT	70 lb/31.75 kg	4000 Series: Non-corrosive
CD 5.0LS	5.0 LaserStar	99.999 % O <sub>2</sub> < 5 ppm H <sub>2</sub> O < 3 ppm THC < 1 ppm	K	60 lb/27.2 kg	4000 Series: Non-corrosive
CD 5.0SE	5.0 Supercritical Fluid Extraction	99.999 % O <sub>2</sub> < 2 ppm H <sub>2</sub> O < 0.5 ppm N <sub>2</sub> < 5 ppm H <sub>2</sub> < 0.1 ppm CO < 0.1 ppm THC (as CH <sub>4</sub> ) < 2 ppm Total Extractable Hydrocarbons < 10 ppb (as Dodecane) Total Extractable Halocarbons < 100 ppb (as CCl <sub>4</sub> )	AS	39 lb/17.7 kg	SFE/SFC Kit (PRS CO <sub>2</sub> )
CD 4.8SC	4.8 Supercritical Fluid Chromatography	99.998 % O <sub>2</sub> < 5 ppm H <sub>2</sub> O < 1 ppm N <sub>2</sub> < 10 ppm H <sub>2</sub> < 0.1 ppm CO < 0.1 ppm THC (as CH <sub>4</sub> ) < 2 ppm Total Extractable Hydrocarbons < 50 ppb (as Dodecane)	AS	39 lb/17.7 kg	SFE/SFC Kit (PRS CO <sub>2</sub> )
CD 4.8RS	4.8 Research	99.998 % O <sub>2</sub> < 2 ppm H <sub>2</sub> O < 3 ppm N <sub>2</sub> < 10 ppm THC < 4 ppm CO < 0.5 ppm	K AS	60 lb/27.2 kg 39 lb/17.7 kg	4000 Series: Non-corrosive

## Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content	Regulator Recommendations See Section F, Page 1
CD 4.5LS	4.5 LaserStar	99.995% H <sub>2</sub> O < 5 ppm O <sub>2</sub> < 5 ppm THC (as CH <sub>4</sub> ) < 1 ppm	K	60 lb/27.2 kg	3008 Series: Special Purpose
CD 4.0AN	4.0 Anaerobic	99.99 % O <sub>2</sub> < 10 ppm	K Q	60 lb/27.2 kg 20 lb/9.07 kg	3008 Series: Special Purpose
CD 4.0IS	4.0 Instrument	99.99 % O <sub>2</sub> < 15 ppm H <sub>2</sub> O < 10 ppm	K Q	60 lb/27.2 kg 20 lb/9.1 kg	3008 Series: Special Purpose
CD 3.0	3.0	99.9 %	K Q	60 lb/27.2 kg 20 lb/9.1 kg	3008 Series: Special Purpose
CD 4.8SP	4.8 Semiconductor Process Gas	99.998 % O <sub>2</sub> < 2 ppm H <sub>2</sub> O < 3 ppm N <sub>2</sub> < 10 ppm CH <sub>4</sub> < 4 ppm CO < 0.5 ppm H <sub>2</sub> < 0.5 ppm	K AT	60 lb/27.2 kg 70 lb/31.75	Valve Panels 7000 Series: Semiconductor
CD 4.0SP	4.0 Semiconductor Process Gas	99.99 % O <sub>2</sub> < 10 ppm H <sub>2</sub> O < 10 ppm N <sub>2</sub> < 50 ppm CH <sub>4</sub> < 5 ppm	K AT	60 lb/27.2 kg 70 lb/31.75	Valve Panels 7000 Series: Semiconductor

Eductor tubes available upon request.

*For information about Praxair's  
Dry Ice products contact your local  
Praxair sales representative or visit  
[www.praxair.com/ultraice](http://www.praxair.com/ultraice)*

When ordering, please add the desired cylinder style to the end of the above part number.  
Add "S" for eductor tube (CD 3.0-**KS**).  
Add "D" for DISS connection. (CD 4.0SP-**KD**)

See Sections G and H  
for safety and technical  
information.

## Cylinder Information

Cylinder Style	Connection CGA/DISS	Pressure psig/bar	Gross Weight lb/kg
AT*	320/ <b>716</b>	830/57.2	156/71
AS*	320/ <b>716</b>	830/57.2	89/40
K*	320/ <b>716</b>	830/57.2	193/88
Q*	320	830/57.2	86/8

\* Cylinders can be supplied with 2000 psig helium headspace pressure.  
To order, add "H" for headspace (i.e. CD 4.0IS-KSH).

Praxair is the world's largest supplier of carbon dioxide. Praxair's carbon dioxide grades are designed for maximum performance.

See Section E – Medical Gases for Carbon Dioxide – U.S.P. Grade (see page E36)

See page C65 for liquid carbon dioxide.

**Transportation Information**
**UN Number:** 1016


United States of America



Canada



Mexico

**Formula**  
CO

**MSDS Reference**  
P-4576

**CAS Number**  
630 - 08 - 0

**General Description**  
Colorless, odorless, toxic, flammable gas.

Shipping Name	United States of America	Canada	Mexico
Carbon Monoxide, Compressed	Carbon Monoxide, Compressed	Carbon Monoxide, Compressed	Carbon Monoxide, Compressed
Hazard Class	2.3 (2.1)	2.3 (2.1)	2.3
Label	Toxic Gas Flammable Gas	Toxic Gas Flammable Gas	Toxic Gas Flammable Gas

**Product and Package Information**

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft <sup>3</sup> /m <sup>3</sup>	Regulator Recommendations See Section F, Page 1
CO 4.0RS	4.0	99.99 %	T	244/6.77	4000 Series: Non-corrosive
	Research	O <sub>2</sub> < 10 ppm H <sub>2</sub> O < 5 ppm N <sub>2</sub> < 10 ppm CO <sub>2</sub> < 10 ppm Ar < 10 ppm CH <sub>4</sub> < 5 ppm	K	181/5.02	
CO 3.0UH	3.0	99.9 %	T	244/6.77	4000 Series: Non-corrosive
	Ultra High Purity	Sum of O <sub>2</sub> , H <sub>2</sub> O, N <sub>2</sub> , CO <sub>2</sub> , CH <sub>4</sub> < 1000 ppm	K	181/5.02	
CO 2.5	2.5	99.5 %	T	244/6.77	3000 Series: Non-corrosive
		O <sub>2</sub> < 100 ppm	K	181/5.02	
		H <sub>2</sub> O < 20 ppm	Q	61/1.69	
		N <sub>2</sub> < 4500 ppm CO <sub>2</sub> < 100 ppm			
CO 1.85	1.85	98.5 %	T	244/6.77	3000 Series: Non-corrosive
		H <sub>2</sub> O < 20 ppm	K	181/5.02	
			Q	61/1.69	

 When ordering, please add the desired cylinder style to the end of the above part number. (CO 4.0RS-**T**)

**Cylinder Information**

Cylinder Style	Connection CGA	Pressure psig/bar	Gross Weight lb/kg
T	350	2000/138	160/73
K	350	1660/114	145/66
Q	350	1660/114	69/36

See Sections G and H for safety and technical information.

Bulk quantities available (see page C69). Consult your Praxair representative for details.