



## Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard ( 29CFR 1910.1200)

**Product name** Carbon Dioxide

### 1. Identification

#### 1.1. Product Identifier

**Product name** Carbon Dioxide

#### 1.2. Other means of identification

**Product code** 004615  
**UN/ID no** UN1013  
**Synonyms** None  
**Chemical Family** No information available

#### 1.3. Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent.  
**Uses advised against** None known.

#### 1.4. Details of the Supplier of the Safety Data Sheet

**Company Name** Tyco Fire Protection Products  
One Stanton Street  
Marinette, WI 54143-2542  
Telephone: 715-735-7411  
**Contact point** Product Stewardship at 1-715-735-7411  
**E-mail address** psra@tycofp.com

#### 1.5. Emergency Telephone Number

**Emergency telephone** CHEMTREC 001-800-424-9300 or 001-703-527-3887

### 2. Hazards Identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Gases Under Pressure - Compressed Gas

#### 2.2. Label Elements

**Signal Word**  
WARNING

#### Hazard Statements

Contains gas under pressure; may explode if heated



**Precautionary Statements****Storage**

Protect from sunlight. Store in a well-ventilated place.

**2.3. Hazards Not Otherwise Classified (HNOC)**

Contact with product may cause frostbite.

**2.4. Other Information****3. Composition/information on Ingredients****3.1. Mixture**

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
Carbon Dioxide	124-38-9	60 - 100

**4. First aid measures****4.1. Description of first aid measures**

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.)
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

**4.2. Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms** No information available.

**4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to physicians** Treat symptomatically.

**5. Fire-fighting measures****5.1. Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2. Unsuitable Extinguishing Media**

None.

**5.3. Specific Hazards Arising from the Chemical**

None known.

<b>Hazardous Combustion Products</b>	None
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**5.4. Explosion Data**

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

**5.5. Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.  
**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.  
**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.

**7. Handling and Storage**

**7.1. Precautions for Safe Handling**

**Advice on safe handling** Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.  
**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

**8. Exposure Controls/Personal Protection**

**8.1. Control Parameters**

**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Carbon Dioxide 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	-	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m <sup>3</sup> STEL: 30000 ppm STEL: 54000 mg/m <sup>3</sup>	TWA 5000 ppm (VLE-PPT) TWA 9000 mg/m <sup>3</sup> (VLE-PPT) STEL 15000 ppm(PPT-CT) STEL 27000 mg/m <sup>3</sup> (PPT-CT)



ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

**8.2. Appropriate Engineering Controls**

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

**8.3. Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Avoid contact with eyes. Tight sealing safety goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Ventilation** Use local exhaust or general dilution ventilation to control exposure with applicable limits

**8.4. General hygiene considerations**

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Compressed Gas	<b>Color</b>	No data available
<b>Odor</b>	None		
<b>Odor Threshold</b>	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	No data available	
Flash Point	No data available	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific gravity	No data available	
Water Solubility	No data available	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic viscosity	No data available	

**10. Stability and Reactivity**



**10.1. Chemical Stability**

Stable under recommended storage conditions.

**10.2. Reactivity**

No data available

**10.3. Possibility of hazardous reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**10.4. Conditions to Avoid**

Extremes of temperature and direct sunlight.

**10.5. Incompatible Materials**

Strong oxidizing agents. Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

None known.

**11. Toxicological Information**

**11.1. Information on Likely Routes of Exposure**

<b>Product information</b>	No data available
<b>Inhalation</b>	No data available.
<b>Eye Contact</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Ingestion</b>	No data available.

**Acute Toxicity**

**11.2. Information on Toxicological Effects**

**Symptoms** No information available.

**11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Target organ effects</b>	Central Vascular System (CVS), Respiratory System.
<b>Aspiration Hazard</b>	No information available.

**11.4. Numerical Measures of Toxicity - Product information**



## 12. Ecological Information

### 12.1. Ecotoxicity

### 12.2. Persistence and Degradability

No information available.

### 12.3. Bioaccumulation

No information available.

### 12.4. Other Adverse Effects

No information available

## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

**Disposal of wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Do not reuse container.

## 14. Transport Information

### DOT

UN/ID no	UN1013
Proper Shipping Name	Carbon dioxide
Description	UN1013, Carbon dioxide, 2.2
Hazard class	2.2
Emergency Response Guide Number	120

### TDG

UN/ID no	UN1013
Description	UN1013, Carbon dioxide, 2.2
Proper Shipping Name	Carbon dioxide
Hazard class	2.2

### MEX

UN/ID no	UN1013
Description	UN1013, Carbon dioxide, 2.2
Proper Shipping Name	Carbon dioxide
Hazard class	2.2

### ICAO (air)

UN/ID no	UN1013
Description	UN1013, Carbon dioxide, 2.2
Proper Shipping Name	Carbon dioxide
Hazard class	2.2

### IATA



Product code 004615

/ Product name Carbon Dioxide /

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**UN/ID no** UN1013  
**Description** UN1013, Carbon dioxide, 2.2  
**Proper Shipping Name** Carbon dioxide  
**Hazard class** 2.2  
**ERG Code** 2L

**IMDG**

**UN/ID no** UN1013  
**Description** UN1013, Carbon dioxide, 2.2  
**Proper Shipping Name** Carbon dioxide  
**Hazard class** 2.2  
**EmS-No** F-C, S-V

**15. Regulatory Information**

**15.1. International Inventories**

**TSCA** Complies  
**DSL/NDL** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**15.2. US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** No  
**Chronic health hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** Yes  
**Reactive Hazard** No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**15.3. US State Regulations****U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Carbon Dioxide 124-38-9	X	X	X

**16. Other information, including date of preparation of the last revision**

<b>NFPA</b>	Health Hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
<b>HMIS</b>	Health Hazards 0	Flammability 0	Physical Hazards 3	Personal Protection X

**Revision date** 27-Feb-2019

**Revision note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet