

# **Safety Data Sheet**

This safety data sheet complies with the requirements of: WHIMS 2015

Product name Carbon Dioxide

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product Identifier** 

Product name Carbon Dioxide

Other means of identification

Product code 004523

UN/ID no UN1013

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent

Uses advised against None known

**Details of the Supplier of the Safety Data Sheet** 

**Initial Supplier Identifier** 

Johnson Controls Canadian Distribution Centre 20 Delta Park Blvd Brampton ON L6T 5E7 Telephone: 1-888-888-7838

**Emergency Telephone Number** 

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

### 2. Hazards Identification

Classification

Gases under pressure Simple asphyxiants Liquefied gas

Label Elements

**WARNING** 

**Hazard statements** 

Contains gas under pressure; may explode if heated May displace oxygen and cause rapid suffocation



Product name Carbon Dioxide

**PAGE** 2/8



**Precautionary Statements - Storage** 

Protect from sunlight. Store in a well-ventilated place

#### OTHER INFORMATION

# 3. Composition/information on Ingredients

#### Substance

Chemical name	CAS No.	weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Carbon Dioxide	124-38-9	90 - 100%	-	-

## 4. First aid measures

Description of first aid measures

Inhalation Remove to fresh air.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Eye contact

Consult a physician.

Skin contact In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms** No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

# 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the



/ **Product name** Carbon Dioxide /

**PAGE** 3/8

surrounding environment.

**Unsuitable extinguishing media** Do not extinguish a leaking gas fire unless leak can be stopped.

Specific hazards arising from the

chemical

Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket.

Hazardous Combustion Products Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact yes.

Sensitivity to Static Discharge None

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions CONTENTS UNDER PRESSURE. Empty containers pose a potential fire and explosion

hazard. Do not cut, puncture of weld containers.

**Environmental Precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

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.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. Handling and Storage

**Precautions for Safe Handling** 

Advice on safe handling CONTENTS UNDER PRESSURE. Empty containers pose a potential fire and explosion

hazard. Do not cut, puncture of weld containers.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

## 8. Exposure Controls/Personal Protection

Control Parameters

Exposure Limits .



Product name Carbon Dioxide /

Chemical name	Alberta	British Columbia	Ontario TWA	Quebec
Carbon Dioxide	TWA: 5000 ppm	TWA: 5000 ppm	TWA: 5000 ppm	TWA: 5000 ppm
124-38-9	TWA: 9000 mg/m <sup>3</sup>	STEL: 15000 ppm	STEL: 30000 ppm	TWA: 9000 mg/m <sup>3</sup>
	STEL: 30000 ppm			STEL: 30000 ppm
	STEL: 54000 mg/m <sup>3</sup>			STEL: 54000 mg/m <sup>3</sup>

OTHER INFORMATION None known.

**Appropriate Engineering Controls** 

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

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**PAGE** 4/8

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

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical StateCompressed GasAppearanceNo data availableColorNo data available

Odor None

Odor Threshold No data available

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



Product code 004523 / Product name Carbon Dioxide / PAGE 5 / 8

No data available

**Dynamic viscosity**Explosive properties
No data available
No data available.

Oxidizing properties No data available.

OTHER INFORMATION

softening pointNo data availableMolecular WeightNo data availableVOC content (%)No data availableDensityNo data availableBulk DensityNo data available

## 10. Stability and Reactivity

**Reactivity** No information available.

Chemical Stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Excessive heat.

Incompatible Materials None known based on information supplied.

Hazardous decomposition products Carbon oxides.

## 11. Toxicological Information

#### Information on Likely Routes of Exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Information on Toxicological Effects

**Symptoms** No information available.

Numerical Measures of Toxicity

**Acute Toxicity** 

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

**Skin corrosion/irritation**No information available.



Product code 004523 / Product name Carbon Dioxide / PAGE 6 / 8

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Target organ effects** Central Vascular System (CVS), Respiratory System.

**Aspiration hazard** No information available.

# 12. Ecological Information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects No information available.

### 13. Disposal Considerations

Dispose of in accordance with local regulations. Dispose of waste in accordance with

**Waste Treatment Methods** 

Waste from residues/unused

products

environmental legislation.

Contaminated packaging

Do not reuse empty containers.

## 14. Transport Information

**TDG** 

UN/ID no UN1013

Proper Shipping Name Carbon dioxide

Hazard class 2.2

**Description** UN1013, Carbon dioxide, 2.2

MEX

UN/ID no UN1013

Proper Shipping Name Carbon dioxide

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Product code 004523 / Product name Carbon Dioxide / PAGE 7/8

Hazard class 2.2

**Description** UN1013, Carbon dioxide, 2.2

ICAO (air)

UN/ID no UN1013
Proper Shipping Name Carbon dioxide

Hazard class 2.2

**Description** UN1013, Carbon dioxide, 2.2

**IATA** 

UN/ID no UN1013 Hazard class 2.2 ERG Code 2L

**Description** UN1013, Carbon dioxide, 2.2

**IMDG** 

 UN/ID no
 UN1013

 Hazard class
 2.2

 EmS-No
 F-C, S-V

**Description** UN1013, Carbon dioxide, 2.2

RID

UN/ID no UN1013 Proper Shipping Name Carbon dioxide

Hazard class 2.2 Classification Code 2A

**Description** UN1013, Carbon dioxide, 2.2 (13)

**Labels** 2.2 (+13)

<u>ADR</u>

UN/ID no UN1013
Proper Shipping Name Carbon dioxide

Hazard class 2.2
Classification Code 2A
Tunnel restriction code (C/E)
Special Provisions 584, 653

**Description** UN1013, Carbon dioxide, 2.2, (C/E)

Labels 2.2

ADN

Proper Shipping Name Carbon dioxide

Hazard class2.2Classification Code2ASpecial Provisions584, 653

**Description** UN1013, Carbon dioxide, 2.2

Hazard label(s) 2.2 Limited Quantity (LQ) 120 ml

# 15. Regulatory Information

### REGULATORY INFORMATION

## International regulations

Ozone-depleting substances (ODS) Not Applicable

Persistent Organic Pollutants Not Applicable



Product code 004523 / Product name Carbon Dioxide / PAGE 8 / 8

**Export Notification requirements** Not Applicable

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
ENCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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

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

NFPA Health Hazards 0 Flammability 0 Instability 0 Physical and chemical

properties -

Health Hazards 0 Flammability 0 Physical Hazards 3 Personal Protection X

Revision date 09-Nov-2022

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**