

# **Safety Data Sheet**

This safety data sheet complies with the requirements of: WHS regulation 2011

Product name Carbon Dioxide

## Section 1: Identification: Product identifier and chemical identity

**Product Identifier** 

Product name Carbon Dioxide

Product code 009163

Other means of identification

Proper shipping name Carbon dioxide

UN Number UN1013

Recommended use of the chemical and restrictions on use

Recommended use No information available

Uses advised against No information available

Details of manufacturer or importer

Supplier

Johnson Controls Level 3, 37 Dalmore Dr, Scoresby, VIC 3178, Australia

Tel: +1300 725 688

For further information, please contact

Product Stewardship at +1-715-735-7411

**Emergency Telephone Number** 

612 9037 2994 (Australia)

# Section 2: Hazard(s) identification

GHS - Classification

Gases under pressure Compressed Gas

Label Elements



Product code 009163 / Product name Carbon Dioxide / PAGE 2/8



#### Signal word WARNING

#### **Hazard statements**

H280 - Contains gas under pressure; may explode if heated

### **Precautionary Statements - Storage**

Protect from sunlight. Store in a well-ventilated place

#### Other Hazards

## Section 3: Composition and information on ingredients, in accordance with Schedule 8

### Substance

| Chemical name  | CAS No   | weight-%  |
|----------------|----------|-----------|
| Carbon Dioxide | 124-38-9 | 90 - 100% |

### Section 4: First aid measures

### **Description of first aid measures**

Emergency telephone number Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

**Inhalation** Remove to fresh air.

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

Consult a doctor.

**Skin contact** Wash skin with soap and 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.

## **Section 5: Firefighting measures**

Suitable extinguishing media



Product code 009163 / Product name Carbon Dioxide / PAGE 3 / 8

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surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific Hazards Arising from the Chemical** 

Specific hazards arising from the

chemical

No information available.

Hazardous Combustion Products Carbon oxides.

**Special Protective Actions for Fire-Fighters** 

Special protective equipment for

fire-fighters

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

gear. Use personal protection equipment.

Hazchem code 2T

## Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**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 labelled containers.

Precautions to prevent secondary hazards

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

## Section 7: Handling and storage, including how the chemical may be safely used

**Precautions for Safe Handling** 

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

**Incompatible materials**None known based on information supplied.

## Section 8: Exposure controls and personal protection

**Control Parameters** 



Product code 009163 / Product name Carbon Dioxide / PAGE 4/8

### **Exposure Limits**

| Chemical name  | Australia                    |
|----------------|------------------------------|
| Carbon Dioxide | 5000 ppm                     |
| 124-38-9       | 9000 mg/m <sup>3</sup>       |
|                | 12500 ppm                    |
|                | 22500 mg/m <sup>3</sup>      |
|                | 30000 ppm STEL               |
|                | 54000 mg/m <sup>3</sup> STEL |

### **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.

**Environmental exposure controls** No information available.

## Section 9: Physical and chemical properties

## Information on basic physical and chemical properties

Physical StateCompressed GasAppearanceNo data availableColourColourlessOdourNone.

Odour Threshold No data available

PropertyValuesRemarks • MethodpHNo data availableNo data availableMelting point/freezing pointNo data availableNo data available

Boiling point / boiling range -2 °C

Flash Point - No data available
Evaporation Rate No data available
Flammability (solid, gas) No data available

Upper flammability limit: No data available Lower flammability limit: No data available

**Vapour Pressure** No data available No data available **Vapour Density** No data available No data available **Relative Density** No data available No data available Water Solubility No data available No data available solubility(ies) 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 Dynamic viscosity No data available No data available



Product code 009163 / Product name Carbon Dioxide / PAGE 5 / 8

OTHER INFORMATION

softening point
Molecular Weight
VOC content (%)
Density
Bulk Density

No data available
No data available
No information available
No information available

No data available

# Section 10: Stability and reactivity

Reactivity

**Reactivity** No information available.

**Chemical Stability** 

**Stability** Stable under normal conditions.

**Explosion Data** 

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

Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

**Hazardous Polymerisation** Hazardous polymerisation does not occur.

**Conditions to Avoid** 

Conditions to avoid None known based on information supplied.

**Incompatible Materials** 

**Incompatible materials**None known based on information supplied.

**Hazardous decomposition products** 

Hazardous decomposition products Carbon oxides.

## **Section 11: Toxicological information**

## 11.1. Information on Likely Routes of Exposure

**Product information** 

**In high concentration the gas may cause a suffocation. Victim may not be aware of** 

asphyxiation. In confined or poorly ventilated areas, vapours can readily accumulate and

can cause unconsciousness and death.

Eye Contact None known.

**Skin contact** None known.

**Ingestion** Not an expected route of exposure.



duct code 009163 / Product name Carbon Dioxide /

**PAGE** 6/8

Acute Toxicity

#### 11.2. Information on Toxicological Effects

Symptoms Unconsciousness.

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

**Carcinogenicity** No information available.

Reproductive Toxicity Lack of oxygen during pregnancy has produced developmental abnormalities in humans

and experimental animals.

**STOT - Single Exposure**STOT - Repeated Exposure
No information available.
No information available.

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

**Aspiration Hazard** No information available.

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

The following values are calculated based on chapter 3.1 of the GHS document

## **Section 12: Ecological information**

**Ecotoxicity** 

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

### Persistence and Degradability

No information available.

### Bioaccumulative potential

**Bioaccumulation** No information available.

**Mobility** 

products

Mobility in Soil No information available.

**Mobility** No information available.

Other Adverse Effects

Other Adverse Effects No information available.

# **Section 13: Disposal considerations**

**Waste Treatment Methods** 

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.



Product code 009163 / Product name Carbon Dioxide / PAGE 7/8

## **Section 14: Transport information**

ADG

UN Number UN1013
Proper shipping name Carbon dioxide

Hazard Class 2.2 Special Provisions 378, 392

**Description** UN1013, Carbon dioxide, 2.2

Hazchem code 2T

IATA

UN/ID no UN1013
Hazard class 2.2
ERG Code 2L
Special Provisions A202

**Description** UN1013, Carbon dioxide, 2.2

IMDG

 UN/ID no
 UN1013

 Hazard class
 2.2

 EmS-No
 F-C, S-V

 Special Provisions
 378, 392

**Description** UN1013, Carbon dioxide, 2.2

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE

No information available

## **Section 15: Regulatory information**

### **REGULATORY INFORMATION**

#### **National Regulations**

#### <u>Australia</u>

See section 8 for national exposure control parameters

## Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

### **International Inventories**

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

#### Leaend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



Product name Carbon Dioxide

**PAGE** 8/8

**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

### **International regulations**

Ozone-depleting substances (ODS) Not Applicable

Persistent Organic Pollutants Not Applicable

**Export Notification requirements** Not Applicable

## Section 16: Any other relevant information

**Revision date** 28-Sep-2022

**Revision note** 

No information available.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: Exposure controls/personal protection

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceiling Maximum limit value Skin designation

carcinogen

### **Disclaimer**

The information provided in this Material 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** 

Version 6