

# Safety Data Sheet

## according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

### 1 Identification

**Product Name:** ARGOMIX D 1 ÷ 47

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Industrial use

**Details of Manufacturer or Importer:**

Tesuco Pty Limited

Unit 12

110-120 Silverwater Road,

Silverwater NSW 2128

**Phone Number:** +61 2 9737 9937

**Emergency telephone number:** National Poison Information Centre: 13 11 26

### 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



gas cylinder

Gases Under Pressure (Compressed gas) H280 Contains gas under pressure; may explode if heated.

**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.

### 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below.

**Hazardous Components:**

7440-37-1	Argon	Gases Under Pressure (Compressed gas), H280	≥53%
124-38-9	Carbon dioxide	Gases Under Pressure (Liquefied gas), H280	≤47%

### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:** Adverse effects not expected from this product.

**Eye Contact:** Adverse effects not expected from this product.

**Ingestion:** Ingestion is not considered a potential route of exposure.

**Symptoms Caused by Exposure:**

High concentrations may cause asphyxiation. Symptoms may include loss of consciousness. Victim may not be aware of asphyxiation.

Low concentrations of CO<sub>2</sub> cause increased respiration and headache.

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<b>124-38-9 Carbon dioxide</b>	
NES	STEL: 54000 mg/m <sup>3</sup> , 30000 ppm TWA: 9000 mg/m <sup>3</sup> , 5000 ppm

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Avoid under-oxygenated atmospheres (O<sub>2</sub><18%). In high concentrations may cause asphyxiation.

Oxygen gas detectors should be used when asphyxiating gases may be released.

**Respiratory Protection:**

Wear approved self-contained breathing apparatus in case of insufficient ventilation or leaks. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Safety leather gloves, protective clothing and safety boots. See Australian/New Zealand Standard AS/NZS 2161 for more information.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against gas. See Australian/New Zealand Standard AS/NZS 1337.

## 9 Physical and Chemical Properties

**Appearance:**

**Form:** Gas

**Colour:** Colourless

**Odour:** Odourless

**Odour Threshold:** Odour threshold is subjective and inadequate to warn for overexposure.

**pH-Value:** Not applicable

**Melting point/freezing point:** Argon: -189.34 °C

Carbon dioxide: Sublimation -78.5 °C

**Initial Boiling Point/Boiling Range:** Argon: -186 °C (1.013 bar)

Carbon dioxide: Sublimation -78.5 °C

**Flash Point:** Not applicable

**Flammability:** Product is not flammable.

**Auto-ignition Temperature:**

**Decomposition Temperature:** No information available

**Explosion Limits:**

**Lower:** Not applicable

**Upper:** Not applicable

**Vapour Pressure:** No information available

**Relative Density:** No information available

**Vapour Density:** No information available

**Evaporation Rate:** Not applicable

**Solubility in Water:** Argon: 61 mg/L (15 °C; 1.013 bar)

Carbon dioxide: 1.7163 vol/vol (0 °C; 1.013 bar)

**Partition Coefficient (n-octanol/water):** No information available

**Viscosity:** No information available

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## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Inert gas

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** None

**Hazardous Decomposition Products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological Information

**Toxicity:**

**Acute Health Effects**

**Inhalation:**

High concentrations may cause asphyxiation. Symptoms may include loss of consciousness. Victim may not be aware of asphyxiation. Low concentrations of carbon dioxide cause increased respiration and headache. High concentrations of carbon dioxide cause rapid respiratory failure. Symptoms are headache, nausea, vomiting and loss of consciousness.

**Skin:** No adverse health effects expected.

**Eye:** No adverse health effects expected.

**Ingestion:** Ingestion is not considered a potential route of exposure.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

## 12 Ecological Information

**Ecotoxicity:** No information available

**Aquatic toxicity:** No information available

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

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### 13 Disposal considerations

**Disposal Methods and Containers:**

Do not discharge into any place where its accumulation could be dangerous, but in atmosphere or well ventilated area.

Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 Transport information

<b>UN Number</b>	1956
<b>Proper Shipping Name</b>	COMPRESSED GAS, N.O.S. (Argon, Carbon dioxide)
<b>IATA</b>	Cargo: Pkg Inst: 200 Max Net Qty/Pkg: 150kg Passenger: Pkg Inst: 200 Max Net Qty/Pkg: 75kg ERG Code: 2L
<b>Dangerous Goods Class</b>	2.2
<b>Packing Group:</b>	Not applicable
<b>Marine pollutant:</b>	No
<b>EMS Number:</b>	F-C,S-V
<b>Hazchem Code:</b>	2TE
<b>Special Provisions:</b>	274, 292
<b>Limited Quantities:</b>	120 mL
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P200

### 15 Regulatory information

**Australian Inventory of Chemical Substances:**

7440-37-1	Argon
124-38-9	Carbon dioxide

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

### 16 Other information

**Date of Preparation or Last Revision:** 06.03.2017

**Prepared by:** MSDS.COM.AU Pty Ltd

[www.msds.com.au](http://www.msds.com.au)

**Abbreviations and acronyms:**

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

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Gases Under Pressure (Compressed gas): Gases under pressure – Compressed gas

Gases Under Pressure (Liquefied gas): Gases under pressure – Liquefied gas

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

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