

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

1 Identification

Product Name: ARGON**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 Characterisation: Substances**CAS No. Description**

Substance

Hazardous Components:

7440-37-1	Argon	Gases Under Pressure (Refrigerated liquefied gas), H281	100%
-----------	-------	---	------

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: Not expected to present a significant hazard.**Eye Contact:** Not expected to present a significant hazard.**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.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

Product Name: ARGON

(Contd. of page 1)

5 Fire Fighting Measures

Suitable Extinguishing Media: Water spray or fog. Do not use water jet.

Specific Hazards Arising from the Chemical:

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Use water spray to cool fire exposed containers.

Gas heavier than air. May accumulate in confined areas, particularly at ground or below ground level.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Methods and Materials for Containment and Cleaning Up:

Stop flow of product if safe to do so. If not, bring the cylinder outdoors, in a ventilated area, and empty it in the atmosphere.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid inhalation of vapours. Use only outdoors or in a well-ventilated area.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Only experienced and properly instructed persons should handle gases under pressure.

Open slowly the valve in order to avoid pressure shot. Do not allow backfeed into the container. Avoid the backfeed of water. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Close container valve after each use and when empty, even if still connected to equipment. Do not attempt to transfer gases from one cylinder/container to another. Do not use direct flame or electrical heating devices to raise the pressure of a container.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Do not smoke while handling product.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Do not expose to the sun or temperatures exceeding 50 °C. Protect from heat, sparks, open flames and other sources of ignition. Keep away from combustible materials. Containers' valve guards or caps should be in place. Keep containers in upright position. Check periodically for damage or leaks.

8 Exposure controls and personal protection

Exposure Standards:

7440-37-1 Argon

NES Asphyxiant

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

Product Name: ARGON

(Contd. of page 2)

Engineering Controls:

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

Avoid under-oxygenated atmospheres ($O_2 < 18\%$). In high concentrations argon may cause asphyxiation.

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

Respiratory Protection:

Wear an 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:

Leather gloves. 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: Odourless

pH-Value: Not applicable

Melting point/freezing point: $-189\text{ }^{\circ}\text{C}$

Initial Boiling Point/Boiling Range: $-186\text{ }^{\circ}\text{C}$

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: Not applicable

Relative Density at $20\text{ }^{\circ}\text{C}$: 1.38 g/cm^3

Vapour Density: Not determined.

Evaporation Rate: Not applicable

Solubility in Water at $15\text{ }^{\circ}\text{C}$: $67\text{ mg/L (1.013 bar)}$

Viscosity at $0\text{ }^{\circ}\text{C}$: $2.1017\text{E-}04\text{ Poise (1.013 bar)}$

Additional Information: Critical temperature: $-122\text{ }^{\circ}\text{C}$

10 Stability and Reactivity

Possibility of Hazardous Reactions: No hazardous reactions will occur.

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: Combustible materials.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision: 20.01.2022

Product Name: ARGON

(Contd. of page 3)

Hazardous Decomposition Products:

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

11 Toxicological Information**Toxicity:****LD₅₀/LC₅₀ Values Relevant for Classification:** No information available**Acute Health Effects****Inhalation:** High concentrations may cause asphyxiation. Symptoms may include 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:** No sensitising effects known.**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: Not applicable**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**12 Ecological Information****Ecotoxicity:** No adverse ecological effects are expected.**Aquatic toxicity:** This product has no known eco-toxicological effects.**Persistence and Degradability:** Not applicable**Bioaccumulative Potential:** Not applicable**Mobility in Soil:** Not applicable**13 Disposal considerations****Disposal Methods and Containers:**

May be vented to atmosphere in a well ventilated place.

Do not discharge into any place where its accumulation could be dangerous.

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

UN Number

1006

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 20.01.2022

Revision:20.01.2022

Product Name: ARGON

(Contd. of page 4)

Proper Shipping Name	ARGON, COMPRESSED
IATA	Cargo
	Pkg Inst: 200
	Max Net Qty/Pkg: 150kg
	Passenger
	Pkg Inst: 200
	Max Net Qty/Pkg: 75kg
	ERG Code: 2L
Dangerous Goods Class	2.2
Packing Group:	Not applicable
Marine pollutant:	No
EMS Number:	F-C,S-V
Hazchem Code:	2T
Limited Quantities:	120 mL
Packagings & IBCs - Packing Instruction:	P200

15 Regulatory information

Australian Inventory of Chemical Substances:

7440-37-1 | Argon

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 Ltdwww.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)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

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)

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

Gases Under Pressure (Refrigerated liquefied gas): Gases under pressure – Refrigerated liquefied gas

Data compared to the previous version altered: Argon (216001)

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"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Tesuco Pty Limited makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.