



# ARGON 2 PART MIX (Compressed)

SAFETY DATA SHEET

(SDS Number – PGC AM042017)

Effective Date: July 2022

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product Identifier

**PRODUCT NAME:** Argon, Carbon Dioxide Mixed

**SYNONYMS:** PacShield 80/20

### 1.2 Uses and uses advised against

Uses: Shielding gas for welding

### 1.3 Details of the supplier of the product

Pacific Gas Pty Limited,  
22-26 Cumberland Drive  
Seaford, VIC, 3198  
Contact Telephone: (61) 408 350 180  
Email: info@pacgas.com.au

### 1.4 Emergency telephone number(s)

Contact Telephone: (61) 408 350 180

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA**

**GHS classification(s)** Gases Under Pressure:  
Compressed gas

### 2.2 Label elements

**Signal word: WARNING**

### Pictogram(s)



### Hazard statement(s)

H280: Contains gas under pressure; may explode if heated

### Prevention statement(s)

Non allocated

### Response statement(s)

Non allocated

### Storage Statement(s)

P410 and P403: Protect from sunlight. Store in a well-ventilated place

### Disposal Statement(s)

None allocated

### 2.3 Other hazards

Asphyxiant, this product may displace oxygen and cause suffocation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

| Ingredient     | CAS No    | EC Number | Percentage |
|----------------|-----------|-----------|------------|
| Argon          | 7440-37-1 | 231-147-0 | 80.0%      |
| Carbon Dioxide | 124-38-9  | 204-696-9 | 20.0%      |

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**EYE CONTACT:** None.

**INHALED:** In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Remove victim to uncontaminated area whilst wearing self contained breathing apparatus (SCBA). Victim may not be aware of asphyxiation. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Continued treatment should be symptomatic and supportive.

**SKIN ABSORPTION:** None required.

**INGESTION:** Considered unlikely.

**FIRST AIDE FACILITIES:** No information provided.

#### 4.2 Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility / consciousness. Victim may not be aware of asphyxiation. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.

#### 4.3 Immediate medical attention and special treatment needed

Treat for asphyxia

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media:

Use water spray or fog to cool cylinders or containers in the adjacent area.

#### 5.2 SPECIAL HAZARDS ARISING FROM SUBSTANCE OR MIXTURE:

Non flammable.

#### 5.3 Advice for firefighters

If possible, remove cool cylinders from the path of the fire. Evacuate the area if unable to move cylinders and they are exposed to the fire. Cylinders exposed to fire should not be moved until they have cooled.

#### 5.4 Hazchem Code

##### 2TE

|   |   |
|---|---|
| 2 | Fine Water Spray  |
| T | Wear full fire kit and breathing apparatus. Dilute spill and run off.                           |
| E | Evacuation of people in and around the immediate vicinity of the incident should be considered. |

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

If cylinder is leaking and you are unable to stop the leak, evacuate personnel from the area. Contact your gas supplier for expert advice. Use of PPE as detailed in Section 8.

#### 6.2 Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

#### 6.3 Methods of cleaning up

Carefully move material to a well ventilated remote area, then allow gas to escape to atmosphere. Do not attempt to repair leaking valve or cylinder safety devices.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Use of safe work practices to avoid inhalation. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Only use gas regulators / equipment suitable for the cylinder gas type and working pressure. Close the cylinder valve after each use.

### 7.2 Conditions for safe storage, including any incompatibilities

Store and use with adequate ventilation in a secure area; below 45°C, in an area constructed of non-combustible material with firm level floor. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over. There should be no sources of ignition in the area.

### 7.3 Specific end use(s)

No information provided

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredient     | Reference | TWA        |                   | STEL  |                   |
|----------------|-----------|------------|-------------------|-------|-------------------|
|                |           | ppm        | mg/m <sup>3</sup> | ppm   | mg/m <sup>3</sup> |
| Argon          | SWA (AUS) | Asphyxiant |                   |       |                   |
| Carbon Dioxide | SWA (AUS) | 5000       | 9000              | 30000 | 54000             |

### Biological limits

No biological limit values have been entered for this product

### 8.2 Exposure controls

Provide adequate natural or explosion-proof mechanical ventilation to minimize or eliminate exposure. Confined areas (e.g. tanks) should be adequately ventilated or gas tested.

### PPE

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | safety glasses  |
| <b>Hands Wear</b>  | Chemical resistant impervious gloves  |
| <b>Body Wear</b>   | appropriate safety boots  |
| <b>Respiratory</b> | If in a confined area, use an air purifying or air fed respirator complying with an approved standard |



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                |
|---------------------------|----------------|
| Appearance                | Colourless gas |
| ODOUR Odour               | Odourless      |
| Flammability              | Non Flammable  |
| Flash point               | Not relevant   |
| Boiling point             | Not Available  |
| Melting point             | Not Available  |
| Evaporation rate          | Not Applicable |
| pH                        | Not Applicable |
| Vapour density            | Not Applicable |
| Specific gravity          | Not Applicable |
| Solubility (water)        | Not Available  |
| Vapour pressure           | Not Available  |
| Upper explosion limit     | Not relevant   |
| Lower explosion limit     | Not relevant   |
| Partition coefficient     | Not Available  |
| Autoignition temperature  | Not Available  |
| Decomposition temperature | Not Available  |
| Viscosity                 | Not Available  |
| Explosive properties      | Not Available  |
| Oxidising properties      | Not Available  |
| Odour threshold           | Not Available  |

### 9.2 Other information

|             |      |
|-------------|------|
| % Volatiles | 100% |
|-------------|------|

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific test data related to reactivity for this product is available. It is important to carefully review all information provided below.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions of storage.

10.4 Conditions to avoid

Avoid shock, friction, heavy impact and heat sources.

10.5 Incompatible materials

Compatible with most commonly used materials.

10.6 Hazardous decomposition products

This material will not decompose to form a hazardous product other than that already present.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

|                          |  |
|--------------------------|--|
| Acute toxicity           | Based on available data, the classification criteria are not met   |
| Skin                     | Not irritating to the skin   |
| Eye                      | Not irritating to the eye  |
| Sensitisation            | Not classified as causing skin or respiratory sensitisation  |
| Mutagenicity             | No significant ingredient is classified as a mutagen   |
| Carcinogenicity          | No significant ingredient is classified as a a carcinogen  |
| Reproductive             | No significant ingredient is classified as a a reproductive toxin  |
| STOT – single exposure   | Asphyxiant. Effects are proportional to oxygen displacement. Over exposure may result in dizziness, drowsiness, weakness, fatigue, breathing difficulties and unconsciousness. |
| STOT – repeated exposure | Not classified as causing organ damage from repeated exposure  |
| Aspiration               | Not classified as causing aspiration   |

**12. ECOLOGICAL INFORMATION**

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

Product is not harmful to the environment

**13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

**Waste disposal:** Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier. Unserviceable cylinders should be returned to the supplier for safe and proper disposal.

**Legislation:** Dispose of in accordance with relevant local legislation

**14. TRANSPORT INFORMATION**

**CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**



|                        | LAND TRANSPORT (ADG)                  | SEA TRANSPORT (IMDG / IMO)            | AIR TRANSPORT (IATA / ICAO)           |
|------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| UN Number              | 1956                                  | 1956                                  | 1956                                  |
| Proper Shipping Name   | Compressed Gas, NOS, (contains Argon) | Compressed Gas, NOS, (contains Argon) | Compressed Gas, NOS, (contains Argon) |
| Transport Hazard Class | 2.2                                   | 2.2                                   | 2.2                                   |
| Packing Group          | None allocated                        | None allocated                        | None allocated                        |

14.5 Environmental hazards

No information provided.

14.6 Special precautions for user

**Hazchem code: 2TE**

**GTEPG: 2C1**

**EMS: F-C, S-V**

**Other information:** Cylinders should be transported in a secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

**15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

|                    |   |
|--------------------|---|
| Poison Schedule    | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).   |
| Classifications    | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.<br>The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)]. |
| Hazard Codes       | Non Allocated   |
| Risk Phrases       | Non Allocated   |
| Safety Phrases     | Non Allocated   |
| Inventory Listings | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt  |

**16. OTHER INFORMATION**

Other Information

**Application method:** Never open an argon cylinder valve without the regulator attached. Use only a gas regulator of suitable pressure and flow rating fitted to cylinder.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:** The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.  
**HEALTH EFFECTS FROM EXPOSURE:** It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**INFORMATION PREPARED BY:**  
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