

# SAFETY DATA SHEET

## ARGON / CO<sub>2</sub>

2.2: Non Flammable  
Non Toxic Gas

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### 1. COMPANY DETAILS

**COMPANY:** TESUCO PTY LTD  
**ADDRESS:** UNIT 1A / 107 CARNARVON STREET SILVERWATER  
NSW 2128  
**PHONE :** 1800 631 511  
**FAX:** 1800 640 604

### 2. IDENTIFICATION / COMPOSITION OF CONTENTS

**CONTAINER:** NON REFILLABLE CYLINDER WITH A CAPACITY OF < 2.2 L  
**PRODUCT NAME:** ARGON / CO<sub>2</sub>  
**CONCENTRATION:** 90% ARGON / 10% Carbon Dioxide  
**PURITY:** 99.995  
**CHEMICAL COMPOUND:** Ar / CO<sub>2</sub>  
**UN NUMBER:** 1956  
**CLASS:** 2.2  
**CAS NO:** Carbon Dioxide: 124-38-9     Argon: 7440-37-1  
**USE:** Welding shielding gas

### 3. HAZARD IDENTIFICATION

- COMPRESSED GAS
- IN HIGH CONCENTRATION IT CAN CAUSE ASPHYXIATION

### 4. FIRST AID MEASURES

#### 4.1. Inhalation

- In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation.
- Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

#### 4.2. Eye contact

- No adverse effects expected from this product

#### 4.3. Skin contact

- No adverse effects expected from this product

#### 4.4. Ingestion

- Ingestion is not considered a potential route of exposure (gas)

### 5. FIRE-FIGHTING MEASURES

#### 5.1. Suitable extinguishing media

- All known extinguishants can be used

#### **5.2. Unsuitable extinguishing media**

- None

#### **5.3. Specific hazards**

- Non flammable
- Exposure to fire may cause containers to rupture/explode

#### **5.4. Special protective equipment for fire fighters**

- In confined space use self-contained breathing apparatus

#### **5.5. Other advice for fire fighters**

- If possible, stop flow of product.
- Move away from the container and cool with water spray jet from a protected position.
- Do not empty contaminated fire water into drains

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions**

- Evacuate area.
- Try to stop release.
- Ensure adequate air ventilation.
- Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

#### **6.2. Environmental precautions**

- Try to stop the release

#### **6.3. Clean up methods**

- Ventilate the area

#### **6.4. Reference to other sections**

- See also sections 8 and 13

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

##### **Safe use of the product**

- Use only properly specified equipment which is suitable for this product and temperature. Contact the gas supplier if in doubt.
- Only experienced and properly instructed persons should handle gases under pressure.
- The product must be handled in accordance with good industrial hygiene and safety procedures.
- Do not smoke while handling product.
- Ensure the complete system was (or is regularly) checked for leaks before use.

##### **Safe handling of the gas receptacle**

- Refer to suppliers container handling instructions.
- Do not allow back feed into the container.
- Protect cylinders from physical damage, do not drag roll, slide or drop.
- When moving large cylinders, even for short distances, use a cart or trolley.
- Leave valve protection caps in place until use.
- If user experiences any difficulty in using valve discontinue use and contact supplier.
- Never attempt to repair or modify container valves.
- Damaged cylinders or valves should be reported to the supplier.
- Never attempt to re-fill container or transfer gas from one container to another.
- Never use direct flame or electrical heating devices to raise the pressure of the container.
- Do not remove or deface or modify labels on the containers.

## 7.2. Storage

- Keep container below 50°C in a well ventilated place
- Keep away from combustible materials
- Observe all local regulations and requirements regarding storage of containers.
- Containers should not be stored in conditions likely to cause corrosion.

## 7.4. Packaging material

- Steel

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Exposition Values

#### Carbon Dioxide

SAEL 2004

TWA = none

### 8.2. Personal protection

- Ensure adequate ventilation
- Devices for relieve the values limit of exposure (TLV).

#### 8.2.1. Protection measures

##### 8.2.1.1. Respiratory protection

- Keep self contained breathing apparatus readily available for emergency use

##### 8.2.1.2. Hands protection

- Wear suitable gloves for handling the container

##### 8.2.1.3. Eyes protection

- None required

##### 8.2.1.4. Skin protection

- None required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

**Aspect** : compressed gas

**Colour** : colourless

**Odour** : odourless

### 9.2. Physical and chemical information

**Boiling point** : Not applicable for gas mixtures

**Flash point** : Not applicable for gas mixtures

**Flammability range** : not flammable

**Oxidant property** : not oxidant

**Vapour Pressure** : Not applicable

**Relative density, gas (air=1)**: 1,38

**Solubility in water**: Not applicable for gas mixtures

## 10. STABILITY AND REACTIVITY

### 10.1. Condition to avoid

- Heating
- Leakage

### 10.2. Materials to avoid

- none

### 10.3. Hazardous decomposition products

- none

## 11. TOXICOLOGICAL INFORMATION

**11.1. Toxicological information**

- No known toxicological effect from this product

**12. ECOLOGICAL INFORMATION****12.1. Ecological effects information**

- No known ecological damage caused by this product

**13. DISPOSAL CONSIDERATION****13.1. General**

- To atmosphere in a well ventilated place.
- Do not discharge into any place where its accumulation could be dangerous.
- Gas cylinders are disposable containers, can be recycled.
- Contact supplier if guidance is required

**14. TRASPORT INFORMATION****UN No 1956**

IATA Class:2.2

Labelling: not flammable, not toxic gas

PSN: not flammable, not toxic gas

Class IMDG: 2.2

Label: not flammable, not toxic gas

H.I. No: 20/1956

Labelling IMDG: not flammable, not toxic gas

ADR/ADNR Class: 2

Labelling: 2.2

H.I. No: 20/1956

Labelling ADR/RID: not flammable, not toxic gas

Class RID:2

Labelling: 2.2

H.I. No: 20/1956

Labelling ADR/RID: not flammable, not toxic gas

Proper shipping name (IATA) COMPRESSED GAS N.O.S. Carbon Dioxide, Argon.

**15. REGULATORY INFORMATION****15.1. EC Classification**

- Not included in Annex I

**16. OTHER INFORMATION****16.1. Regulations**

- Ensure all national/local regulations are observed

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws. Details given in this document are believed to be correct at the time of going to press. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**Revised Edition Date: 15/12/2009**

This sheet cancels and replaces the previous editions