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# **SAFETY DATA SHEET**

# **NITROGEN**

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2.2: Non Flammable
Non Toxic Gas

#### 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: NITROGEN
CONCENTRATION: 100%
PURITY: 99.995
CHEMICAL COMPOUND: N2
UN NUMBER: 1066
CLASS: 2.2

**CAS NO:** 7727-37-9

**USE:** For use in the Air conditioning, refrigeration, plumbing, laboratory & food

packaging

## 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 effect of living tissue

#### 4.3. Skin contact

- No effect on living tissue

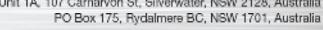
## 4.4. Ingestion

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

## **5. FIRE-FIGHTING MEASURES**

5.1. Suitable extinguishing media







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- 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 measures
- If possible, stop flow of product.
- Move away from the container and cool with water from a protected position.

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

# **6.1. Personal precautions**

- Evacuate area.
- 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

### 7. HANDLING AND STORAGE

#### 7.1. Handling

- Open valve slowly to avoid pressure shock
- Suck back of water into the container must be prevented.
- Do not allow back feed into the container.
- Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.
- While moving the container, wear appropriate protective garment.
- Refer to supplier's container handling instructions.

## 7.2. Storage

- Keep container below 50°C in a well ventilated place

## 7.4. Packaging material

- Stee

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Exposition Values

## Helium

**SAEL 2004** 

TWA = none

#### 8.2. Personal protection

- Ensure adequate ventilation
- Devices for relive 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





TECHNICAL SUPPLIES COMPANY

Tesuco Pty Limited ABN 21 003 578 434
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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: -196°C
Melting point: -210°C
Flash point: not applicable
Flammability range: not flammable
Oxidant property: not oxidant
Vapour Pressure: 57,3 bar (@20°C)
Relative density, gas (air=1): 0,97
Solubility in water: 20 mg/l

#### 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 1066** 

IATA Class:2.2

Labelling: not flammable, not toxic gas





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PSN: not flammable, not toxic gas

Class IMDG: 2.2

Label: not flammable, not toxic gas

H.I. No: 20/1066

Labelling IMDG: not flammable, not toxic gas

ADR/ADNR Class: 2 Labelling: 2.2 H.I. No: 20/1066

Labelling ADR/RID: not flammable, not toxic gas

Class RID:2 Labelling: 2.2 H.I. No: 20/1066

Labelling ADR/RID: not flammable, not toxic gas

#### 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

