

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

- 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

- Steel

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposition Values

Helium

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 : -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. TRASPOT INFORMATION

UN No 1066

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: 20/1066
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