

NITROGEN, REFRIGERATED LIQUID (N2)**AL613**

Label 2.2 : Non flammable, non toxic gas.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name : NITROGEN, REFRIGERATED LIQUID (N2)
MSDS Nr : AL613
Use : Analytical chemistry. Industrial applications.
Chemical formula : N2
Company identification : Air Liquide Australia Limited
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Melbourne 3004 Australia
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ALAEquiries@AirLiquide.com
Emergency phone nr : 1800 812 588

2 HAZARDS IDENTIFICATION

Hazard classification : Not classified as hazardous according to NOHSC criteria.
Classified as a dangerous good by the criteria of the ADG code.
Hazards identification : Compressed gas.
In high concentrations may cause asphyxiation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Preparation : Substance.

Substance name	Contents	CAS No	EC No	Annex No	Classification
Nitrogen (refrigerated)	100 %	7727-37-9	231-783-9	----	

Contains no other components or impurities which will influence the classification of the product.

4 FIRST AID MEASURES

First aid measures
- 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.

5 FIRE-FIGHTING MEASURES

Specific hazards : Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products : None.
Extinguishing media
- Suitable extinguishing media : All known extinguishants can be used.
Specific methods : If possible, stop flow of product.
Move away from the container and cool with water from a protected position.



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5 FIRE-FIGHTING MEASURES (continued)

Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate area.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Ensure adequate air ventilation.

Environmental precautions : Try to stop release.

Clean up methods : Ventilate area.

7 HANDLING AND STORAGE

Storage : Keep container below 50°C in a well ventilated place.

Handling : Suck back of water into the container must be prevented.
Do not allow backfeed 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.
Refer to supplier's container handling instructions.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection : Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C : Gas.

Colour : Colourless gas.

Odour : No odour warning properties.

Molecular weight : 28

Melting point [°C] : -210

Boiling point [°C] : -196

Critical temperature [°C] : -147

Vapour pressure [20°C] : Not applicable.

Relative density, gas (air=1) : 0.97

Relative density, liquid (water=1) : Not applicable.

Solubility in water [mg/l] : 20

10 STABILITY AND REACTIVITY

Stability and reactivity : Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

Toxicity information : No known toxicological effects from this product.

NITROGEN, REFRIGERATED LIQUID (N2)**AL613****13 DISPOSAL CONSIDERATIONS**

General : Do not discharge into any place where its accumulation could be dangerous.
To atmosphere in a well ventilated place.
Contact supplier if guidance is required.

14 TRANSPORT INFORMATION**General information**

UN No. : 1977

Labelling ADG

: Label 2.2 : Non flammable, non toxic gas.

Land transport

H.I. nr : 22

Proper shipping name : UN1977 NITROGEN, REFRIGERATED LIQUID, 2.2, 3A

HAZCHEM - Emergency Action Code : 2T

: 2 = *Fine water spray.*

T = Recommended personal protective equipment : Full fire kit and breathing apparatus.

Appropriate measures : dilute.

- ADG Class : 2

- ADG Classification code : 3 A

- ADR Packing group : A

Sea transport

- IMO-IMDG code : Class 2

- IMO Packing group : A

- IMDG-Marine pollution : -

- Emergency Schedule (EmS) - Fire : F-C S-V

Air transport

- ICAO/IATA : Packaging instructions cargo : 202
Packaging instructions passenger: 202

- Proper shipping name : NITROGEN, REFRIGERATED LIQUID

• Class : 2

- IATA Packing group : A

Other transport information

: Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers :

- Ensure that containers are firmly secured.

- Ensure cylinder valve is closed and not leaking.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

- Ensure valve protection device (where provided) is correctly fitted.

- Ensure there is adequate ventilation.

- Compliance with applicable regulations.

15 REGULATORY INFORMATION

EC Classification : Not included in Annex I.
Not classified as dangerous preparation/substance.



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15 REGULATORY INFORMATION (continued)

EC Labelling : No EC labelling required.
Symbol(s) : None.
R Phrase(s) : None.
S Phrase(s) : None.

16 OTHER INFORMATION

Asphyxiant in high concentrations.

Keep container in a well-ventilated place.

Do not breathe the gas.

Ensure all national/local regulations are observed.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

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.

DISCLAIMER OF LIABILITY : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. 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.

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