



SAFETY DATA SHEET

Doc. No.: SDS – 004A (4)
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Owner: Safety & Quality
Rev. Date: July 11, 2016

Nitrogen

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

Trade name : Nitrogen
SDS No. : 004A
Chemical Formula : N₂
Company Identification : Air Liquide Philippines Inc.
Main Office : 12F Ecotower, 32nd St. cor. 9th Ave., Bonifacio Global City, Taguig City 1634, Philippines
Main Plant : Sandoval Ave., Pinagbuhatan, Pasig City
Phone No. : (02) 838 – 1780 to 83 / 837-8135 to 37 / 838-1756
: 09189168312 (Customer hotline 6PM-8AM)

2 HAZARDS IDENTIFICATION

Classification of the substance

- **Physical Hazard** : Gases under pressure - compressed gas
- **Health Hazard** : no acute toxicity

Label Elements

- **Hazard Pictogram**



- **Signal word** : Warning
- **Hazard Statement** : Contains gas under pressure - may explode if heated
- **Precautionary statement** : Store in a well ventilated place

Other Hazard

: In high concentration may cause asphyxiation

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation		: Substance			
Substance Name	Contents	CAS No.	EC No.	Index No.	Classification
Nitrogen	100%	7727-37-9	231-783-9	-----	

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



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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

Flammable class

: Non flammable

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.

Special protective equipment for fire fighters

: In confined space use self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

: Evacuate area

Use protective clothing

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.



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7 HANDLING AND STORAGE

- Storage** : Keep container below 50 degrees 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

- Engineering Measures/Controls** : Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Personal Protective Equipment**
- Respiratory** : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or symptoms are experienced.
- Eye/Face** : Wear safety glasses
- Skin/Body** : Wear leather gloves when handling cylinders
- Environmental Exposure Controls** : Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 degrees C** : Compressed gas
- Color** : Colorless gas
- Odor** : No odor warning properties



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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Molecular Weight	: 28
Melting point (degrees C)	: -210
Boiling point (degrees C)	: -196
Critical temperature (degrees C)	: -147
Critical temperature (degrees C)	: -147
Vapor pressure, 20 degrees 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

12 ECOLOGICAL INFORMATION

Ecological effects information : No known ecological damage caused by this product.

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.

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14 TRANSPORT INFORMATION

UN No. : 1066
H.I. nr : 20
ADR / RID :
- Proper shipping name : Nitrogen, Compressed
- ADR Class : 2
- ADR / RID Classification code : 1 A
- Labeling ADR :



: 2.2: Non flammable, non toxic gas.

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 regulation

15 REGULATORY INFORMATION

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

EC Labeling : No EC labeling required.

- **Symbol (s)** : None

- **R Phrase (s)** : None

- **S Phrase (s)** : None



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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.
- 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.

Recommended uses and restrictions:

This SDS is for information purposes only and is subject to change without prior notice. [Prior to purchase of products, please contact your local AIR LIQUIDE office for the latest SDS edition].

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