



# SAFETY DATA SHEET

SDS No. : SDS - 008  
Revision : 0  
Issue Date : 04.09.2015


## NITROGEN COMPRESSED

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING.

**Trade/ Commercial Name** : Nitrogen Compressed  
**Chemical Description** : Nitrogen  
: CAS No: 007727-37-9, EC No: 231-783-9  
**Chemical Formula** : N<sub>2</sub>  
**Use** : Industrial & Professional. Perform risk assessment prior to use.  
**Company Identification** : Air Liquide India Holding Pvt. Ltd.  
: A-24/9, Mohan Co-operative Industrial Estate,  
: Mathura Road, New Delhi-110044.  
**Emergency Contact No.** : **011-30157288**

### 2. HAZARDS IDENTIFICATION

**Physical Hazards** : Gases under pressure – Compressed gas – Warning (H280)  
**Label Elements** : Non flammable and Non toxic gas(2.2)



**Hazard Pictograms Code** : GHS04  
**Hazard Statement** : H280: Contains gas under pressure; may explode if heated.  
**Precautionary Statements** : Wear cold insulating gloves/ face shield/eye protection Avoid spills. Do not walk on or roll equipment over spills. Close valve after each use and when empty.  
**Storage** : P403: Store in a well-ventilated place.  
**Other Hazards** : Asphyxiant in high concentrations.  
**Symbol(s)** : None.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS (Product identifier)	%
Nitrogen	7727-37-9	99.5 - 100%

### 4. 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.  
**Skin/ Eye Contact** : Immediately wash eyes with copious amount of water for at least 15 minutes. In case of frostbite, spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.  
**Ingestion** : Ingestion is not considered a potential route of exposure.

### 5. FIRE FIGHTING MEASURES

**Specific Hazard** : Exposure to fire may cause containers to rupture/ explode.  
**Hazardous Combustion** : None.  
**Suitable Extinguishing Media** : All known extinguishants can be used.  
**Products Specific Methods** : If possible, stop the 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.

**NITROGEN COMPRESSED****6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	: Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
<b>Environmental Precautions</b>	: Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be.
<b>Methods for Cleaning up</b>	: Ventilate the area and keep evacuated.

**7. HANDLING & STORAGE**

<b>Handling</b>	: Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipments which are suitable for this product, its supply pressure and temperature. Contact your Gas supplier if in doubt. Refer to supplier's container handling instructions.
<b>Storage</b>	: Keep container below 50°C in a well ventilated place.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

<b>Personal Protection</b>	: Do not smoke while handling the product. Ensure adequate ventilation. Protect eyes, face and skin from liquid splashes. Use proper PPEs, while using the product. Avoid Oxygen deficiency (<21%) atmosphere.
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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State at 20°C</b>	: Gas.
<b>Color</b>	: Colorless Gas.
<b>Odor</b>	: No odor warning properties.
<b>Molecular Weight</b>	: 28 g/mole.
<b>Molecular Formula</b>	: N <sub>2</sub>
<b>Boiling/ Condensation Point</b>	: -196°C
<b>Melting/ freezing point</b>	: -210°C
<b>Critical temperature</b>	: -147°C
<b>Relative Density, Gas (air=1)</b>	: 0.97
<b>Relative Density, Liquid (water=1)</b>	: Not Applicable.
<b>Flammability Range (vol. % in air)</b>	: None.
<b>Auto-Ignition Temperature</b>	: Not Applicable.

**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	: Stable under normal conditions.
<b>Hazardous Decomposition Products</b>	: None.

**11. TOXICOLOGICAL INFORMATION**

<b>Toxicity Information</b>	: No known toxicological effect from this product.
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**12. ECOLOGICAL INFORMATION**

<b>Ecological Effect Information</b>	: No known ecological damage caused by this product.
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#### 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 required.

#### 14. TRANSPORT INFORMATION

**UN Number** : 1066  
**Labeling ADR, IMDG ,IATA** : Non flammable and Non toxic gas (2.2)



**Land Transport;**

**UN Proper Shipping Name** : Nitrogen compressed.  
**Transport Hazard Class** : 2  
**Hazchem code** : 2RE  
**Tunnel/ Underpass Restriction** : Passage forbidden through long tunnels and underpasses.

Avoid transport on vehicles where the load space is not separated from the driver's compartment.  
Ensure vehicle drivers are aware of the potential hazards of the load and know what to do in the event of an accident or an emergency.

Before transporting product containers ensure:

- That container is firmly secured.
- Cylinder valve is closed and not leaking.
- Valve outlet cap nut or plug (where provided) is correctly fitted.
- Valve protection device (where provided) is correctly fitted and
- Product transport container/ tank should keep or stand in well ventilated area.

#### 15. REGULATORY INFORMATION

**Workplace Hazardous Materials Information System (WHMIS)**

1. **Class A:** Compressed gas.
2. Non flammable and non toxic gas (2.2).
3. Ensure all national/ local regulations are observed.

#### 16. OTHER INFORMATION

- Keep container in a well-ventilated place.
- Do not breathe the gas.
- Asphyxiate in high concentrations.
- The hazard and asphyxiation are often overlooked and must be stressed during operator training.

**DISCLAIMER OF LIABILITY:**

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. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.