



# SAFETY DATA SHEET

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Revised edition no: 0

Date: 01-01-2013

## NITROGEN (refrigerated)

Y.O 004

### 1. IDENTIFICATION OF THE SUBSTANCE / PRODUCTION AND COMPANY NAME

Trade Name : Nitrogen (refrigerated)  
MSDS No. : Y.O 004  
Chemical Formula : N<sub>2</sub>  
Company Name : Yateem Oxygen  
Emergency Phone Nr : 17456248, 17731452

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name : Nitrogen Contents : 100%  
Contains no other components or impurities which will influence the classification of the product

### 3. HAZARDS IDENTIFICATION

Hazards identification : Refrigerated liquefied gas. Contact with product may cause cold burns or frostbite.  
In high concentrations may cause asphyxiation.



### 4. FIRST AID MEASURES

a) Inhalation : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/ loss of 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.

b) Skin/eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.  
In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing.

### 5. FIRE-FIGHTING MEASURES

Flammable class : Non flammable.  
Specific hazards : Exposure to fire may cause containers to rupture/explode.

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. 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 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.  
Refer to supplier's container handling instructions.

### 7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection : Ensure adequate ventilation.  
Protect eyes, face and skin from liquid splashes.



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### 8. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Refrigerated liquefied gas.
Colour	: Colourless gas.
Odour	: No odour warning properties.
Molecular formula	: N <sub>2</sub>
Molecular weight	: 28
Melting point [°C]	: -210
Boiling point [°C]	: -196
Critical temperature [°C]	: -147
Vapour pressure, 20°C	: 760 mm of Hg@-196 °C
Relative density, gas (air=1)	: 0.97
Relative density, liquid (water=1)	: 0.8
Solubility in water [mg/l]	: 20
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

### 9. STABILITY AND REACTIVITY

Stability and reactivity	: Stable under normal conditions. Liquid spillages can cause embrittlement of structural materials.
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### 10. TOXICOLOGICAL INFORMATION

Toxicity information	: No known toxicological effects from this product.
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### 11. DISPOSAL CONSIDERATIONS

General	: Do not discharge into any place where its accumulation could be dangerous. Discharge to atmosphere in a well ventilated place. Contact supplier if guidance is required.
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### 12. TRANSPORT INFORMATION

UN No.	: 1977
Proper shipping name	: NITROGEN, REFRIGERATED LIQUID
Labeling	: Label 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 regulations.



### 13. OTHER INFORMATION

May cause frostbite.  
Keep container in a well-ventilated place.  
Do not breathe the gas.  
Ensure all national/local regulations are observed.  
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.