



# SAFETY DATA SHEET

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Revised edition no: 0

Date: 01-01-2013

## PROPANE

Y.O 013

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

Trade Name : PROPANE  
MSDS No. : Y.O 013  
Chemical Formula : C<sub>3</sub>H<sub>8</sub>  
Company Name : Yateem Oxygen  
Emergency Phone Nr : 17456248, 17731452

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

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

### 3. HAZARDS IDENTIFICATION

Hazards identification : Liquefied gas.  
Extremely flammable.



### 4. FIRST AID MEASURES

a) Inhalation : Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.  
Remove victim to uncontaminated area.

### 5. FIRE-FIGHTING MEASURES

Flammable class : Extremely flammable.  
Specific hazards : Exposure to fire may cause containers to rupture/explode.  
Hazardous combustion products : Incomplete combustion may form carbon monoxide.  
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.  
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.  
Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus.

### 6. HANDLING AND STORAGE

Storage : Segregate from flammable gases and other flammable materials in store.  
Keep container below 50°C in a well ventilated place.  
Handling : Ensure equipment is adequately earthed.  
Suck back of water into the container must be prevented.  
Purge air from system before introducing gas.  
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.  
Keep away from ignition sources (including static discharges).  
Refer to supplier's container handling instructions.

### 7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection : Do not smoke while handling product.  
Wear suitable hand, body and head protection. Wear goggles with suitable filter lenses when use is cutting/welding.  
Avoid oxygen rich (>21%) atmospheres.  
Ensure adequate ventilation.



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### 8. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Liquefied gas.
Colour	: Colourless gas.
Odour	: Sweetish. Poor warning properties at low concentrations.
Molecular formula	: C <sub>3</sub> H <sub>8</sub>
Molecular weight	: 44
Melting point [°C]	: -188
Boiling point [°C]	: -42.1
Critical temperature [°C]	: 97
Vapour pressure, 20°C	: 8.3 Bar
Relative density, gas (air=1)	: 1.5
Relative density, liquid (water=1)	: 0.58
Solubility in water [mg/l]	: 75
Flammability range [vol% in air]	: 2.2 to 9.5
Auto-ignition temperature [°C]	: 470
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	: Can form explosive mixture with air. May react violently with oxidants.
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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 areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
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### 12. TRANSPORT INFORMATION

UN No.	: 1978
Proper shipping name	: PROPANE
Labeling	: Label 2.1 : flammable 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

Ensure operators understand the flammability hazard.  
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.  
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.