



SAFETY DATA SHEET

Page: 1/2

Revised edition no: 0

Date: 01-01-2013

OXYGEN (refrigerated)

Y.O 002

1. IDENTIFICATION OF THE SUBSTANCE / PRODUCTION AND COMPANY NAME

Trade Name : LIQUID OXYGEN
MSDS No. : Y.O 002
Chemical Formula : O₂
Company Name : Yateem Oxygen
Emergency Phone Nr : 17456248, 17731452

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name : Oxygen (refrigerated) 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.
Oxidant. Strongly supports combustion.
May react violently with combustible materials.



4. FIRST AID MEASURES

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

b) Skin/eye contact : Remove victim to uncontaminated area.
: 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.
Supports combustion.

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 : Segregate from flammable gases and other flammable materials in store.
Keep container below 50°C in a well ventilated place.

Handling : Use no oil or grease.
Open valve slowly to avoid pressure shock.
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.
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.
Avoid oxygen rich (>21%) atmospheres.
Protect eyes, face and skin from liquid splashes.



SAFETY DATA SHEET

Page: 2/2

Revised edition no: 0

Date: 01-01-2013

OXYGEN (refrigerated)

Y.O 002

8. PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Oxygen (refrigerated)
Colour	: Bluish liquid.
Odour	: No odour warning properties.
Molecular formula	: O ₂
Molecular weight	: 28
Melting point [°C]	: -219
Boiling point [°C]	: -183
Critical temperature [°C]	: -118
Vapour pressure, 20°C	: Not applicable.
Relative density, gas (air=1)	: 1.1
Relative density, liquid (water=1)	: 1.2
Solubility in water [mg/l]	: 39
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	: May react violently with combustible materials. May react violently with reducing agents. Violently oxidises organic material. Liquid spillages can cause embrittlement of structural materials. Risk of explosion if spilt on organic structural materials (eg wood or asphalt).
--------------------------	---

10. TOXICOLOGICAL INFORMATION

Toxicity information	: No known toxicological effects from this product.
----------------------	---

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.
---------	--

12. TRANSPORT INFORMATION

UN No.	: 1073
Proper shipping name	: OXYGEN, (refrigerated liquid)
Labeling	: Label 2.2 : Non flammable, non toxic gas. Label 5.1 Oxidizing substances.
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.