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		Date : 15/7/2005
		Supersedes : 0/0/0
	Oxygen	AL097A
Label 2.2 : Non flammable, non toxic gas.	Label 5.1 : Oxidizing substances.	O : Oxidizing
1 IDENTIFICATION OF THE S	SUBSTANCE / PREPARATION AND OF THE COMPAN	NY / UNDERTAKING
Trade name MSDS No	: Oxygen : AL097A	
Chemical formula	: 02	
Company identification	: AIR LIQUIDE SA	
	France See paragraph 16 "OTHER INFORMATION"	
Emergency phone nr	: See paragraph 16 "OTHER INFORMATION"	
2 COMPOSITION / INFORMA	ATION ON INGREDIENTS	
Substance / Preparation	: Substance.	
Substance / Freparation	. Oubstance.	
Substance name	Contents CAS No EC No	Index No Classification
Substance name Oxygen	Contents CAS No EC No	008-001-00-8 O; R8
Substance name Oxygen Contains no other component	ContentsCAS NoEC No:100 %7782-44-7231-956-9:s or impurities which will influence the classification of the pro-	008-001-00-8 O; R8
Substance name Oxygen	ContentsCAS NoEC No:100 %7782-44-7231-956-9:s or impurities which will influence the classification of the pro-	008-001-00-8 O; R8
Substance name Oxygen Contains no other component	ContentsCAS NoEC No:100 %7782-44-7231-956-9:s or impurities which will influence the classification of the pro-	008-001-00-8 O; R8 duct.
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATIO	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro- N : Compressed gas. Oxidant. Strongly supports combustion. May read	008-001-00-8 O; R8 duct.
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATIO Hazards identification	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro- N : Compressed gas. Oxidant. Strongly supports combustion. May read	008-001-00-8 O; R8 duct. ct violently with combustible
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATION Hazards identification 4 FIRST AID MEASURES First aid measures	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro- N : : Compressed gas. Oxidant. Strongly supports combustion. May readmaterials. : Continuous inhalation of concentrations higher the dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area.	008-001-00-8 O; R8 duct. ct violently with combustible
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATIO Hazards identification 4 FIRST AID MEASURES First aid measures - Inhalation	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro- N : : Compressed gas. Oxidant. Strongly supports combustion. May readmaterials. : Continuous inhalation of concentrations higher the dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area.	008-001-00-8 O; R8 duct. ct violently with combustible
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATION Hazards identification 4 FIRST AID MEASURES First aid measures - Inhalation 5 FIRE-FIGHTING MEASURES	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro- N : Compressed gas. Oxidant. Strongly supports combustion. May readmaterials. : Continuous inhalation of concentrations higher the dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area. ES : Non flammable. : Exposure to fire may cause containers to rupture	008-001-00-8 O; R8 duct. ct violently with combustible nan 75% may cause nausea,
Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATION Hazards identification 4 FIRST AID MEASURES First aid measures - Inhalation 5 FIRE-FIGHTING MEASURE Flammable class Specific hazards	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the pro N . : Compressed gas. Oxidant. Strongly supports combustion. May readmaterials. : Continuous inhalation of concentrations higher the dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area. ES : : Non flammable. : Exposure to fire may cause containers to rupture Supports combustion.	008-001-00-8 O; R8 duct. ct violently with combustible nan 75% may cause nausea,
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Substance name Oxygen Contains no other components 3 HAZARDS IDENTIFICATION Hazards identification 4 FIRST AID MEASURES First aid measures - Inhalation 5 FIRE-FIGHTING MEASURES Flammable class Specific hazards Hazardous combustion proc Extinguishing media	Contents CAS No EC No : 100 % 7782-44-7 231-956-9 :s or impurities which will influence the classification of the provide the classification of the provide the classification of the provide the classification. N : Compressed gas. Oxidant. Strongly supports combustion. May readmaterials. : Continuous inhalation of concentrations higher the dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area. : S : Non flammable. : Exposure to fire may cause containers to rupture Supports combustion. ducts : None.	008-001-00-8 O; R8 duct. ct violently with combustible nan 75% may cause nausea,



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ACCIDENTAL RELEASE MEASURES		
Personal precautions	: Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources.	
Environmental precautions	: Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	
Clean up methods	: Ventilate area.	
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 supp 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. 	

8 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state at 20 °C	: Compressed gas.
Colour	: Colourless gas.
Odo(u)r	: No odour warning properties.
Molecular weight	: 32
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)	: 1.1
Solubility in water [mg/l]	: 39
Flammability range [vol% in air]	: Oxidiser.
Auto-ignition temperature [°C]	: Not applicable.
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.



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10 STABILITY AND REACTIVITY		
Stability and reactivity	: May react violently with combustible materials. May react violently with reducing agents. Violently oxidises organic material.	
11 TOXICOLOGICAL INFORMATION		
Toxicity information	: No known toxicological effects from this product.	
12 ECOLOGICAL INFORMATION		
Ecological effects information	: No ecological damage caused by this product.	
13 DISPOSAL CONSIDERATIONS		
General	 To atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required. 	
14 TRANSPORT INFORMATION		
UN No. H.I. nr ADR/RID - Proper shipping name - ADR Class - ADR Class - ADR/RID Classification code - Labelling ADR Other transport information	 1072 25 OXYGEN, COMPRESSED 2 10 Label 2.2 : Non flammable, non toxic gas. Label 5.1 : Oxidizing substances. 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 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. 	
15 REGULATORY INFORMATION		
EC Classification	: Index No : 008-001-00-8 O; R8	
EC Labelling - Symbol(s) - R Phrase(s) - S Phrase(s)	 : O : Oxidizing : R8 : Contact with combustible material may cause fire. : S17 : Keep away from combustible material. 	



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16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Ensure operators understand the hazard of oxygen enrichment.

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 notice. [Prior to purchase of products, please contact your local AIR LIQUIDE office for a complete SDS (with Manufacturer's name and emergency phone number).]

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