

## SAFETY DATA SHEET

**Item Code: N6011**

Section 1.	Identification of the material and the supplier
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Item Code:	N6011
Product:	Oxygen
Product Use:	For use in the welding and cutting industry. Oxidant in the Industrial processes and in the treatment of water.
New Zealand Supplier:	Realcold Ltd
Address:	9 Prescott Street Penrose, Auckland
Telephone:	09 526 5700
Fax Number:	09 526 5721
<b>Emergency Telephone:</b>	<b>09 526 5700</b> <b>0800 766 764 (National Poison Centre)</b>
Manufacturer:	Tesuco Pty Ltd, Unit 2, 24 Picken St, Stillwater, NSW Aust
Date of MSDS Preparation:	14 March 2017 – ver 2

Section 2.	Hazards Identification
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**This substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001***

**EPA Approval Code: HSR001029**

**Pictograms**



Oxidising

HSNO Class.	Hazard Code	Hazard Statement	EU Risk Phrases
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5.1.2A	H270	May cause or intensify fire oxidiser.	None allocated
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Prevention Code	Prevention Statement
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P103	Read label before use.
P104	Read safety data sheet before use
P220	Store away from clothing and flammable materials.
P244	Keep reduction valves free from grease and oil.

Response Code	Response Statement
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Date of MSDS: 14 February 2012		Tel: 64 9 526 5700

P370 + P376	In case of fire: Stop leak if safe to do so.
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**Storage Code                      Storage Statement**

P403	Store in a well-ventilated place.
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**Section 3.                      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
Oxygen	100	7782-44-7

**Section 4.                      First Aid Measures**

Routes of Exposure:

- If in Eyes                      Cold burns. Hold eyelids apart and irrigate with warm water or sterile saline for 15 minutes. Seek medical attention.
- If on Skin                      Cold burns. Apply sterile dressing and treat as for thermal burn.
- If Swallowed                      Exposure Improbable
- If Inhaled                      The continuous inhalation in concentrations of over 75% can cause nausea, dizziness difficulty breathing and convulsions. If required, contact Emergency Services immediately, requesting Medical assistance.

**Section 5.                      Fire Fighting Measures**

<b>Hazard Type</b>	Combustible
<b>Suitable Extinguishing media</b>	All known Extinguishing Methods can be used.
<b>Precautions for firefighters and special protective clothing</b>	Constant Exposure to Flames may result in the cylinder imploding or exploding. Stop the product from leaking if possible. Keep a safe distance from the container & douse with constant cool water from a safe distance. Wear Protective Clothing and use Breathing Apparatus in enclosed spaces.
<b>HAZCHEM CODE</b>	<b>2P</b>

**Section 6.                      Accidental Release Measures**

- Evacuate the Immediate Area.
- Ensure Suitable Ventilation
- Ensure there is no Ignition Sources within the Confined Area
- Avoid accumulation of product in drains and other zones where build up can occur.
- Contact Emergency Services Immediately if required

**Section 7.                      Handling and Storage**

- Handling**                      Avoid the use of Oil & Grease while using the Cylinder. Open Valve slowly to avoid sudden pressure variations. Keep away from Ignition Sources Avoid Water flowing back into the cylinder. Avoid Gas flowing back into the cylinder. Contact Supplier of Gas if in doubt. Only Use Specific Equipment, suitable for this product, pressure, temperature Refer to Supplier's Instructions on handling the container

**Storage** No smoking whilst handling the Cylinder.  
Do not store with flammable goods or materials  
Store the container at a temperature Below 50°C in a ventilated area

## Section 8 Exposure Controls / Personal Protection

**Engineering Controls** Guarantee suitable ventilation. Avoid atmospheres rich in Oxygen (>23%)

### Personal Protection

Respiratory: Wear Appropriate Breathing Equipment when necessary.  
Hand: Use insulated leather gloves  
Eye: Wear Protective Goggles when Cutting & Welding.  
Skin: Wear Appropriate Protective Clothing

## Section 9 Physical and Chemical Properties

**Appearance** Colourless gas or pale blue liquid in compressed state  
**Odour** None  
**Critical Temperature** -118°C  
**Flammability** non flammable  
**Solubility in Water** 39mg/l  
**Vapour density** 1.114 (air = 1)

## Section 10. Stability and Reactivity

**Stability of Substance** Stable under recommended conditions of storage  
**Conditions to Avoid** Uncontrolled accumulation of the substance in enclosed spaces  
**Incompatible Materials** Can react violently with flammable substances such as oils and greases & reducing agents  
**Hazardous Decomposition Products** Could occur from violent oxidation of organic materials

## Section 11 Toxicological Information

Non toxic.  
No LD50 data available

## Section 12. Ecotoxicological Information

Not toxic to aquatic or terrestrial life under normal atmospheric conditions

## Section 13. Disposal Considerations

Do Not Discharge in areas where accumulation can be dangerous  
Discharge into the atmosphere in a well ventilated area  
Gas Cylinders are NON REFILLABLE CYLINDERS

## Section 14 Transport Information

Classified as a Dangerous Good for transport. Open top vehicles.

Road and Rail Transport (in NZ ; NZS 5433:2007)

UN No: 1072

Product Name: Oxygen Item No: N6011  
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Class-primary 2.2  
Subsidiary risk 5.1  
Packing Group None Allocated  
Proper Shipping Name: OXYGEN, COMPRESSED

#### Air Transport

UN No: 1072  
Class-primary 2.2  
Subsidiary risk 5.1  
Packing Group None Allocated  
Proper Shipping Name: OXYGEN, COMPRESSED

#### Marine Transport

UN No: 1072  
Class-primary 2.2  
Subsidiary risk 5.1  
Packing Group None Allocated  
Proper Shipping Name: OXYGEN, COMPRESSED  
Marine Pollutant Yes

### **Section 15 Regulatory Information**

EPA Approval Code: HSR001029

HSNO Classification: 5.1.2A

HSNO Controls & Trigger quantities for this substance:

	<b>Trigger Quantity</b>
Approved Handler	200 m3
Location Certificate	50 m3
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	500 m3
Emergency Response Plan trigger Quantities	100 m3

### **Section 16 Other Information**

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

#### Disclaimer

This document has been issued by Realcold Limited and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Realcold Limited or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Realcold Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Realcold Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, Realcold Ltd, if further information is required.

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