



OXYGEN

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Oxygen

Product Code - Other Names -

Product Use Brazing applications
Company Name Bromic Group
Address 1 Suttor Street

Silverwater NSW 2128

 Telephone Number
 02 9748 3900

 Emergency Telephone
 1300 276 642

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Compressed gas. Oxidant. Strongly supports combustion. May react violently with combustible materials.

Continuous inhalation of high concentrations of may cause chest tightness, burning pains and coughing. Other symptoms of hyperoxia include cramps, nausea, dizziness, hypothermia, loss of vision, fainting spells and convulsions.

POTENTIAL HEALTH EFFECTS INFORMATION

Inhalation: Continuous inhalation of high concentrations of may cause chest tightness, burning pains and coughing. Other symptoms of hyperoxia include cramps, nausea, dizziness, hypothermia, loss of vision, fainting spells and convulsions.

Ingestion: Ingestion is not expected to occur in normal use.

Eye Contact: Non-irritating. **Skin Contact:** Non-irritating.

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards O - Oxidising

Risk Phrases R8 - Contact with combustible material may cause fire.

Safety Phrases S2 - Keep out of reach of children

S17 - Keep away from combustible material.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)CAS NumberProportionOxygen7782-44-7100%

4. FIRST AID MEASURES

Inhalation Continuous inhalation of high concentrations of may cause chest

tightness, burning pains and coughing. Other symptoms of





hyperoxia include cramps, nausea, dizziness, hypothermia, loss of

vision, fainting spells and convulsions. Remove victim to

uncontaminated area.

Ingestion Ingestion is considered unlikely.

SkinNon-irritating.EyesNon-irritating.

5. FIRE FIGHTING MEASURES

For major fires call the Fire Brigade. Ensure that an escape path is

available from any fire.

Suitable Extinguishing

Media

All known extinguishing media can be used.

Hazardous Combustion

Products

None.

Special Protective Actions for Firefighters

Evacuate all unnecessary personnel from the area. Allow only properly trained and protected emergency response personnel in area.

If possible, stop flow of product. Move away from the container and cool with water from a protected position.

Unusual Fire or Explosion Hazards Oxygen strongly supports combustion. May react violently with combustible materials. Exposure to fire may cause containers to

rupture/explode.

Hazchem Code 2S

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear full protective clothing. Evacuate all non-essential personnel from affected area. Remove all sources of ignition. Ensure adequate air ventilation.

Environmental Precautions

If possible, stop flow of product.

Methods and Materials for Containment and

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If the cylinder is leaking, move it to a well ventilated remote area

Cleaning Up

and allow discharging. Ventilate area.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent exposure to combustible materials and ignition sources. Use non-sparking tools and explosion-proof equipment. Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Material can accumulate static charges which may cause an electrical spark.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.





Conditions for Safe

Storage

Store in a cool, dry, and well ventilated area. Do not expose to temperatures exceeding 50°C. Segregate from flammable gases and other flammable materials. Protect from heat, sparks, flame and other sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters - No exposure standards set.

Exposure Standards (Safe Work Australia)

Engineering Controls Ensure adequate ventilation.

Personal Protective Equipment (PPE)

Respiratory Protection Avoid oxygen rich (>21%) atmospheres.

Eye/Face Protection Safety glasses with top and side shields or goggles. See Australian

Standards AS 1336 and AS/NZS 1337 for more information.

Skin Protection Wear gloves and protective clothing. See Australian Standards AS

2161 and 2919 and AS/NZS 2210 for more information.

Thermal Hazards No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless gas
Odour Odourless

Odour Threshold No information available PH No information available Melting Point / Freezing Point No information available

Initial Boiling Point / Range -183°C

Flash Point Not applicable
Evaporation Rate Not applicable
Flammability Non flammable
Lower Flammability or Explosive Not applicable

Limit

Upper Flammability or Explosive Not applicable

Limit

Vapour PressureNo information availableVapour DensityNo information available

Relative Density (Specific Gravity) 1.1049 @ 21°C Solubility in Water 0.0489 @ 21°C

Partition coefficient: n-octanol/water Auto-ignition Temperature

Auto-ignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

10. STABILITY AND REACTIVITY

Chemical Stability Stable at ambient temperature and under normal conditions of

No information available

use

Hazardous Polymerization Will not occur.

Conditions to Avoid Sources of ignition.

Incompatible Materials Oil and grease can spontaneously ignite at low temperatures in





oxygen enriched atmospheres. Many other materials, which do not burn in air, will vigorously burn in pure oxygen. All non-metals must be oxygen compatible. Metals can be ignited and will continue to burn in pure oxygen atmospheres under specific

conditions of temperature and pressure.

Hazardous Decomposition

Products

None.

11. TOXICOLOGICAL INFORMATION

Acute Health Effects

Skin Non-irritating.

Corrosion/Irritation

Serious Eye Non-irritating.

Damage/Irritation

Sensitization No information available. **Mutagenicity** No information available.

None.

Carcinogenicity This product does not contain any IARC listed chemicals.

Reproductive Toxicity

STOT-Single No information available.

Exposure

STOT-Repeated No information available.

Exposure

Aspiration Hazard No information available.

Routes of Exposure Inhalation: Continuous inhalation of high concentrations of may

cause chest tightness, burning pains and coughing. Other symptoms of hyperoxia include cramps, nausea, dizziness, hypothermia, loss of vision, fainting spells

and convulsions.

Ingestion: Due to product form, ingestion is considered highly.

Unlikely.

Eye: Non-irritating. Skin: Non-irritating.

Chronic Health Effects None.

Existing Conditions

Aggravated by

Exposure

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not toxic to aquatic or terrestrial life.

Bioaccumulation, Persistence and

Degradibility

Oxygen is the most abundant element on earth. As a gaseous element, it forms 20.95 % (v/v) of the

atmosphere. It makes up 46.6% of the earth's crust as

oxides.

13. DISPOSAL CONSIDERATIONS

Disposal methods and

Dispose according to applicable local and state government

containers

regulations.

Special precautions for Please consult your state Land Waste Management Authority for





landfill or incineration more information.

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number 1072

Proper Shipping Name OXYGEN, COMPRESSED

Dangerous Goods Class2.2Subsidiary Risk5.1Hazchem Code2S

Packing GroupNot applicableSpecial ProvisionsNot applicable

Limited Quantities 0
Packagings & IBCs - Packing Instruction P200

Packagings & IBCs - Special Packing Not applicable

Provisions

Portable Tanks & Bulk Containers – Not applicable

Instructions

Portable Tanks & Bulk Containers - Spe Not applicable

Provisions

SEA TRANSPORT - IMDG

UN Number 1072

Proper Shipping Name OXYGEN, COMPRESSED

Dangerous Goods Class 2.2 Subsidiary Risk 5.1

Packing Group Not applicable

AIR TRANSPORT - ICAO / IATA

UN Number 1072

Proper Shipping Name OXYGEN, COMPRESSED

Dangerous Goods Class 2.2 Subsidiary Risk 5.1

Packing Group Not applicable

15. REGULATORY INFORMATION

Oxygen is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

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Prepared by MSDS.COM.AU Pty Ltd <u>www.msds.com.au</u>





Abbreviations Used IARC: International Agency for Research on Cancer

ASCC: National Occupational Health and Safety Commission

NTP: National Toxicology Program (U.S.)

OSHA: Occupational Safety and Health Administration (U.S.)

STEL: Short term exposure limit TWA: Time weighted average

Emergency Contacts

Bromic Group 02 9748 3900
Bromic Group – Emergency Number 1300 276 642
Police and Fire Brigade 000
Poisons Information Centre 13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]