Safety Data Sheet

in accordance with EPA and WORKSAFE regulations

Print date: 15.06.2023 Revision date: 15.06.2023

1 Identification of the substance or mixture and of the supplier

Product Name: OXYGEN

Part Number: 211423

Recommended Use of the Chemical and Restriction on Use: Industrial and professional use.

Details of Manufacturer or Importer:
Sutton Tools (NZ) Ltd
80A Hunua Rd, Papakura
Auckland, New Zealand, 2110

Phone Number: 0800 553 236

Emergency telephone number: National Poison Centre: 0800 POISON (0800 764-766)

2 Hazards identification

Hazardous Nature:
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Health and Safety at Work (Hazardous Substances) Regulations 2017, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.


Flame over circle

Oxidising Gases 1 H270 May cause or intensify fire; oxidizer.


Gas cylinder

Press. Gas C H280 Contains gas under pressure; may explode if heated.

Signal Word Danger

Hazard Statements
H270 May cause or intensify fire; oxidizer.
H280 Contains gas under pressure; may explode if heated.

Precautionary Statements
P220 Keep away from clothing and other combustible materials.
P244 Keep valves and fittings free from oil and grease.
P370+P376 In case of fire: Stop leak if safe to do so.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

3 Composition/Information on ingredients

Chemical Characterization: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:			
CAS: 7782-44-7	Oxygen	Oxidising Gases 1, H270	≥99.99%

4 First aid measures

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.

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Skin Contact:
In case of skin contact, wash affected areas with water and soap. If frostbite occured, warm the skin with lukewarm water and gently wrap in a blanket. Do not attempt to remove clothing attached to frostbite area with. Seek medical attention if irritation develops.

Eye Contact:
In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Ingestion is not considered a potential route of exposure.

Symptoms Caused by Exposure:
Inhalation: High concentrations may cause nausea, dizziness, respiratory difficulty and convulsions.
Skin Contact: Stream of released gas may cause frostburn.
Eye Contact: May cause eye irritation.
Ingestion: Not considered possible route of exposure.

5 Fire fighting measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:
May cause or intensify fire; oxidiser. This product supports combustion.
Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.
Keep away from reducing agents, combustible materials, organic material, oil and grease.
HAZCHEM Code: 2S

Special Protective Equipment and Precautions for Fire Fighters:
When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures:
Wear approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition.

Environmental Precautions:
In the event of a major spill, prevent spillage from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Methods and Materials for Containment and Cleaning Up:
Stop leak if safe to do so. If not, bring the cylinder outdoors, in a ventilated area, and after that empty it in the atmosphere.

7 Handling and storage

Precautions for Safe Handling:
Use of safe work practices are recommended to avoid eye or skin contact and inhalation of gases. Use only outdoors or in a well-ventilated area.
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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Ensure adequate ventilation. Keep away from reducing agents, combustible materials, organic material, oil and grease. Take care when handling containers to avoid physical damage to the cylinder. Do not allow

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backfeed into the cylinder. Do not allow suck back of water into the cylinder. Do not completely empty the cylinder.

8 Exposure controls/personal protection

Exposure Standards:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:
Respiratory protection is not required under normal use conditions.
Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:
Leather, wool or aramid blend gauntlets. See Australian/New Zealand Standard AS/NZS 2161 for more information.
Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:
Eye and face protectors for protection against gas. See Australian/New Zealand Standard AS/NZS 1337.

9 Physical and chemical properties

Appearance:	
Form:	Compressed gas
Colour:	Colourless
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	-118 °C
Flash Point:	Not applicable
Flammability (solid, gas):	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	No information available

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10 Stability and reactivity

Possibility of Hazardous Reactions:
May cause or intensify fire; oxidiser. May react violently with combustible materials and reducing agents.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: Reducing agents, combustible materials, organic material, oil and grease.

Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological information

Toxicity:
LD50/LC50 Values: No information available

Acute Health Effects
Inhalation: High concentrations may cause nausea, dizziness, respiratory difficulty and convulsions.
Skin: Stream of released gas may cause frostburn.
Eye: May cause eye irritation.
Ingestion: Not considered possible route of exposure.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: Based on classification principles, the classification criteria are not met.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:
Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:
Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information: No information available

12 Ecological information

Ecotoxicity: No adverse ecological effects are expected.

Aquatic toxicity: No information available

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

Other adverse effects: No information available

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13 Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:
Please consult your state Land Waste Management Authority for more information.

14 Transport information

UN Number
NZS, IMDG, IATA UN1072

Proper Shipping Name
NZS, IMDG, IATA OXYGEN, COMPRESSED

Dangerous Goods Class
NZS 5433: 2.2 (5.1)

Packing Group: None

EMS Number: F-C,S-W

Hazchem Code: 2S

Excepted quantities (EQ): E0

Limited Quantities: 0

15 Regulatory information

HSNO Approval Code / Group Standard: Oxygen - HSR001029

New Zealand Inventory of Chemicals All ingredients are listed.

16 Other information

Date of Preparation or Last Revision: 15.06.2023

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:
ADG: Australian Dangerous Goods
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IARC: International Agency for Research on Cancer
STEL: Short Term Exposure Limit
TWA: Time Weighted Average
WES: Workplace Exposure Standard
Oxidising Gases 1: Oxidising gases, Hazard Category 1
Press. Gas C: Gases under pressure – Compressed gas

Disclaimer
This SDS is prepared in accord with the New Zealand Chemical Industry Council document 'Code of Practice (No. HSNO CoP 8-1 09-06)' and Hazardous Substances (Safety Data Sheets) Notice 2020.
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