



Safety Data Sheet

Oxygen, compressed

Issue date: 30/03/2018
Revision date: 25/10/2024

Version: 3.2

SDS reference: MY000363
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SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Product form

Substance

Trade name

i) Linde Medicinal Oxygen 100% v/v
ii) Oxygen, Compressed (Purified)
iii) Oxygen, Compressed (UHP)
iv) Oxygen, Compressed (5.0 Grade)
v) Oxygen, Compressed (5.5 Grade)
vi) Oxygen, Compressed (Industrial)
vii) Oxygen, Compressed (Aviation)
Viii) Oxygen, Compressed 99.999%
ix) Oxygen 5.0
x) Oxygen free Nitrogen
xi) CONOXIA® Compressed Medicinal Oxygen 100% v/v with LIV®

CAS-No.

7782-44-7

Formula

O₂

1.2. Relevant identified uses of the substance or mixture and uses advised against

Restrictions on use

None.

1.3. Supplier's details

Supplier

Linde Gas Products Malaysia Sdn Bhd (453560-K)
P.O. Box 10633, GPO Kuala Lumpur, 50670 WPKL.
No. 1, Jalan Graphite 3, Kawasan Perindustrian Bandar Mahkota Banting,
42700 Banting, Kuala Langat, Selangor Darul Ehsan.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

Other

Linde EOX Sdn. Bhd.
Lot 36, Section 66, Jalan Peteri, Bintawa Industrial Estate,
93450 Kuching, Sarawak.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

Other

Linde EOX Sdn. Bhd.
No.27, Lorong Sukun 28, Jalan Upper Lanang,
96008, Sibul, Sarawak.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

Other

Linde Malaysia Sdn. Bhd.
Lot PLO 87, Jalan Gangsa Dua,
Kawasan Perindustrian Pasir Gudang,
81700, Pasir Gudang, Johor Darul Takzim.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

Other

Linde EOX Sdn. Bhd.
Lot 1525, Block 3, Piasau Industrial Estate, MCLD,
98008, Miri, Sarawak.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

Other

Linde Malaysia Sdn. Bhd.
No.2026, Mukim 1, Prai Industrial Complex,
13600, Prai, Pulau Pinang.
Toll Free: 1800 883 888 / +603 5651 7000
csc.lg.my@linde.com

1.4. Emergency telephone number

Emergency phone number (24h): 1800 883 888
Poison center : Unit HAZMAT Malaysia, tel: 999

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Ox. Gas 1

H270

Press. Gas (Comp.)

H280

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2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Hazard pictograms (GHS MY) :



GHS03

GHS04

Signal word (GHS MY) :

Danger

Hazard statements (GHS MY) :

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

Precautionary statements (GHS MY)

- Prevention

P220 - Keep/Store away from clothing and others combustible materials.
P244 - Keep reduction valves free from grease and oil

- Response

P370+P376 - In case of fire: stop leak if safe to do so

- Storage

P403 - Store in a well-ventilated place.
P410+P403 - Protect from sunlight. Store in a well-ventilated place

2.3. Other hazards not contributing to the classification

Other hazards which do not result in classification

Not classified as PBT or vPvB, The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Name	Product identifier	%
Oxygen, compressed (Main constituent)	(CAS-No.) 7782-44-7	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to uncontaminated area.
First-aid measures after skin contact : Adverse effects not expected from this product.
First-aid measures after eye contact : Adverse effects not expected from this product.
First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed : Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion. See section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment : None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.
Unsuitable extinguishing media : Do not use water jet to extinguish.



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5.2. Special hazards arising from the substance or mixture

- Reactivity : No reactivity hazard other than the effects described in sub-sections below.
Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.
Hazardous combustion products : None.

5.3. Special protective equipment and precautions for fire-fighters

- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in buildings and other structures. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
- Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.
- EAC code : 25

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Act in accordance with local emergency plan. Try to stop release. Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation. See section 8 of the SDS for more information on personal protective equipment.

6.1.2. For emergency responders

- Emergency procedures : Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

- Methods and material for containment and cleaning up : Ventilate area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling of the gas receptacle : Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the content of the container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.

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Safe use of the product : Do not breathe gas. The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at <http://www.eiga.eu>. Use no oil or grease. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Use only oxygen approved lubricants and oxygen approved sealings. Use only with equipment cleaned for oxygen service and rated for container pressure. Avoid suck back of water, acid and alkalis.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities : Segregate from flammable gases and other flammable materials in store. Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring

8.3. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Avoid oxygen rich (>23,5%) atmospheres. Gas detectors should be used when oxidising gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

8.4. Personal protective equipment

Wear safety shoes while handling containers.

Consider the use of flame resistant safety clothing. Standard EN ISO 14116 - Limited flame spread materials. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms.

Eye protection:

Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications

Respiratory protection:

Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. None necessary.



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Thermal hazard protection	: None in addition to the above sections.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

Physical state	: Gas
Appearance	: No data available
Colour	: Colourless.
Odour	: Odourless.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point, Freezing point	: Melting point: -219 °C
Boiling point	: -183 °C
Flash point	: Not applicable for gases and gas mixtures.
Critical temperature	: -118 °C
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Flammability	: Non flammable.
Vapour pressure	: Vapour pressure: Not applicable. Vapour pressure at 50°C: Not applicable.
Evaporation rate	: No data available
Explosive limits	: No data available
Lower explosion limit	: Not applicable.
Upper explosion limit	: Not applicable.
Explosive properties	: No data available
Minimum ignition energy	: No data available
Solubility	: Water: 39 mg/l
Density	: Density: Not applicable for gases and gas mixtures. Relative density: 1.1
Relative density	: Relative vapour density at 20°C: Not applicable. Relative gas density: 1.1
Viscosity	: Viscosity, dynamic: No reliable data available. Viscosity, kinematic: 1.1 No reliable data available.
Critical pressure	: 5043 kPa
Molecular mass	: 32 g/mol
Oxidising properties	: Oxidiser.
Ci	: 1

SECTION 10: Stability and reactivity

Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Avoid moisture in installation systems.
Hazardous decomposition products	: None.
Incompatible materials	: Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu . May react violently with combustible materials. May react violently with reducing agents. For additional information on compatibility refer to ISO 11114.
Possibility of hazardous reactions	: Violently oxidises organic material.

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Reactivity : No reactivity hazard other than the effects described in sub-sections below.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion or irritation	: Not classified
	pH: Not applicable for gases and gas mixtures.
Serious eye damage or eye irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (STOT) – single exposure	: Not classified
Specific target organ toxicity (STOT) – repeated exposure	: Not classified
Aspiration hazard	: Not applicable

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vi) Oxygen, Compressed (Industrial)
vii) Oxygen, Compressed (Aviation)
viii) Oxygen, Compressed 99.999%
ix) Oxygen 5.0
x) Oxygen free Nitrogen
xi) CONOXIA® Compressed Medicinal Oxygen 100% v/v with LIV® (7782-44-7)

Viscosity, kinematic (calculated value) (40 °C)	No reliable data available.
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Other information : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No ecological damage caused by this product.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

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vi) Oxygen, Compressed (Industrial)
vii) Oxygen, Compressed (Aviation)
viii) Oxygen, Compressed 99.999%
ix) Oxygen 5.0
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Partition coefficient n-octanol/water (Log Kow)	Not applicable for inorganic products.
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12.2. Persistence and degradability

i) Linde Medicinal Oxygen 100% v/v ii) Oxygen, Compressed (Purified) iii) Oxygen, Compressed (UHP) iv) Oxygen, Compressed (5.0 Grade) v) Oxygen, Compressed (5.5 Grade) vi) Oxygen, Compressed (Industrial) vii) Oxygen, Compressed (Aviation) viii) Oxygen, Compressed 99.999% ix) Oxygen 5.0 x) Oxygen free Nitrogen xi) CONOXIA® Compressed Medicinal Oxygen 100% v/v with LIV® (7782-44-7)	
Persistence and degradability	No ecological damage caused by this product.

12.3. Bioaccumulative potential

i) Linde Medicinal Oxygen 100% v/v ii) Oxygen, Compressed (Purified) iii) Oxygen, Compressed (UHP) iv) Oxygen, Compressed (5.0 Grade) v) Oxygen, Compressed (5.5 Grade) vi) Oxygen, Compressed (Industrial) vii) Oxygen, Compressed (Aviation) viii) Oxygen, Compressed 99.999% ix) Oxygen 5.0 x) Oxygen free Nitrogen xi) CONOXIA® Compressed Medicinal Oxygen 100% v/v with LIV® (7782-44-7)	
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology
Bioaccumulative potential	No ecological damage caused by this product.

12.4. Mobility in soil

i) Linde Medicinal Oxygen 100% v/v ii) Oxygen, Compressed (Purified) iii) Oxygen, Compressed (UHP) iv) Oxygen, Compressed (5.0 Grade) v) Oxygen, Compressed (5.5 Grade) vi) Oxygen, Compressed (Industrial) vii) Oxygen, Compressed (Aviation) viii) Oxygen, Compressed 99.999% ix) Oxygen 5.0 x) Oxygen free Nitrogen xi) CONOXIA® Compressed Medicinal Oxygen 100% v/v with LIV® (7782-44-7)	
Mobility in soil	No additional information available
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology
Ecology - soil	No ecological damage caused by this product.

12.5. Other adverse effects

Ozone	: Not classified
Effect on global warming	: None.
Effect on the ozone layer	: No effect on the ozone layer.
Other adverse effects	: No known effects from this product.

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SECTION 13: Disposal information

13.1. Disposal methods

- Waste treatment methods** : Contact supplier if guidance is required. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.eu> for more guidance on suitable disposal methods. Do not discharge into any place where its accumulation could be dangerous. May be vented to atmosphere in a well ventilated place. Return unused product in original container to supplier.
- Additional information** : External treatment and disposal of waste should comply with applicable local and/or national regulations.
{ Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.

SECTION 14: Transportation information

14.1. UN number

- UN-No.(UN RTDG) : Not applicable
UN-No. (IMDG) : 1072
UN-No. (IATA) : 1072

14.2. Proper Shipping Name

- Proper Shipping Name (UN RTDG) : Not applicable
Proper Shipping Name (IMDG) : OXYGEN, COMPRESSED
Proper Shipping Name (IATA) : Oxygen, compressed

14.3. Transport hazard class(es)

- UN RTDG
Transport hazard class(es) (UN RTDG) : Not applicable

IMDG

- Transport hazard class(es) (IMDG) : 2.2 (5.1)
Danger labels (IMDG) : 2.2, 5.1



IATA

- Transport hazard class(es) (IATA) : 2.2 (5.1)
Danger labels (IATA) : 2.2, 5.1



14.4. Packing group

- Packing group (UN RTDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

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14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Special transport precautions : 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 there is adequate ventilation, - Ensure that containers are firmly secured, - Ensure 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.

- UN RTDG

- IMDG

Special provisions (IMDG) : 355
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P200
EmS-No. (Fire) : F-C - FIRE SCHEDULE Charlie - NON-FLAMMABLE GASES
EmS-No. (Spillage) : S-W - SPILLAGE SCHEDULE Whisky - OXIDIZING GASES
Stowage category (IMDG) : A
Properties and observations (IMDG) : Non-flammable, odourless gas. Strong oxidizing agent. Heavier than air (1.1).

- IATA

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 200
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 200
CAO max net quantity (IATA) : 150kg
Special provisions (IATA) : A175, A302
ERG code (IATA) : 2X

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC code : Not applicable.

14.8. Hazchem or Emergency Action Code

EAC code : 2S.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Occupational Safety and Health Act 1994 and relevant regulations:

Occupational Safety and Health (Classification, Labeling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.
Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

Environment Quality Act 1974 & regulations:



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Environment Quality (Clean Air) Regulations 2014.
Environmental Quality (Scheduled Wastes) Regulations 2005.

15.2. 15.2. Chemical safety assessment

SECTION 16: Other information

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Abbreviations and acronyms : ATE - Acute Toxicity Estimate
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
EINECS - European Inventory of Existing Commercial Chemical Substances
CAS# - Chemical Abstract Service number
PPE - Personal Protection Equipment
LC50 - Lethal Concentration to 50 % of a test population
RMM - Risk Management Measures
PBT - Persistent, Bioaccumulative and Toxic
vPvB - Very Persistent and Very Bioaccumulative
STOT- SE : Specific Target Organ Toxicity - Single Exposure
CSA - Chemical Safety Assessment
EN - European Standard
UN - United Nations
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA - International Air Transport Association
IMDG code - International Maritime Dangerous Goods
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
WGK - Water Hazard Class
STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
UFI : Unique Formula Identifier

Training advice : Ensure operators understand the hazard of oxygen enrichment.

Other information : Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at <http://www.Eiga.eu> .
Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Ensure equipment is adequately earthed. 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.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.