



Nitrogen/CO2/Oxygen Mixture

Safety Data Sheet E-7032

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 10-15-1979

Revision date: 09-27-2023

Supersedes: 06-07-2023

SDS CA Version: 1.1

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Nitrogen/CO2/Oxygen Mixture
Other means of identification : NI - OX 1ppm - 23.4999%, CD 1ppm-55%
Product group : Core Products

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Industrial use

1.3. Supplier

Linde Canada inc.
500 — 5015 Spectrum Way
Mississauga - Canada L4W 0E4
T 1-905-803-1600 - F 1-905-803-1682
www.lindecana.ca

1.4. Emergency telephone number

Emergency number : 1-800-363-0042
Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product.
For routine information, contact your supplier or Linde sales representative.

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-CA classification

Gases under pressure : Compressed gas H280
Simple Asphyxiant

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms : 

GHS04

Signal word : Warning

Hazard statements : CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION
MAY INCREASE RESPIRATION AND HEART RATE.

Precautionary statements : Do not handle until all safety precautions have been read and understood.
Use and store only outdoors or in a well-ventilated place.
Use a back flow preventive device in the piping.
Use only with equipment rated for cylinder pressure.
Close valve after each use and when empty.
Protect from sunlight when ambient temperature exceeds 52°C (125°F).

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | CAS No. | % (Vol) | Common Name (synonyms) |
|----------------|---------------------|---------------|---|
| Nitrogen | (CAS-No.) 7727-37-9 | 0.0001 – 98 | Nitrogen (liquified) / Nitrogen gas / Nitrogen, liquefied / NITROGEN / Nitrogen, compressed |
| Carbon dioxide | (CAS-No.) 124-38-9 | 0.0001 – 55 | CARBON DIOXIDE |
| Oxygen | (CAS-No.) 7782-44-7 | 0.0001 – 19.5 | Oxygen (dissolved) / Oxygen gas / Oxygen, compressed / Oxygen, dissolved |

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.
- First-aid measures after skin contact : Adverse effects not expected from this product.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : No additional information available

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : None.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

- 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.

5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire code regulations.
- Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
- Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No additional information available.

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Personal Precautions, Protective Equipment and Emergency Procedures : General measures : Ensure adequate ventilation. Personal Precautions, Protective Equipment and Emergency Procedures : EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Use appropriate protective equipment. If leak is on user's equipment, be certain to purge piping before attempting repairs. If leak is on a container or container valve contact the closest Linde Canada location.

6.2. Methods and materials for containment and cleaning up

For containment : Try to stop release if safe to do so.
 Methods for cleaning up : This material is an Asphyxiant Gas. Any leaks should be handled by Emergency Response personnel. For assistance call your supplier. Dispose of contents/container in accordance with container supplier/owner instructions.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear leather safety gloves and safety shoes when handling cylinders. Protect containers from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Carbon dioxide (124-38-9) | | |
|---------------------------|-----------------------|-------------------------|
| USA - ACGIH | ACGIH OEL TWA [ppm] | 5000 ppm |
| USA - ACGIH | ACGIH OEL STEL [ppm] | 30000 ppm |
| USA - OSHA | OSHA PEL TWA [1] | 9000 mg/m ³ |
| USA - OSHA | OSHA PEL TWA [2] | 5000 ppm |
| Canada (Quebec) | VECD (OEL STEL) | 54000 mg/m ³ |
| Canada (Quebec) | VECD (OEL STEL) [ppm] | 30000 ppm |
| Canada (Quebec) | VEMP (OEL TWA) | 9000 mg/m ³ |
| Canada (Quebec) | VEMP (OEL TWA) [ppm] | 5000 ppm |
| Alberta | OEL STEL | 54000 mg/m ³ |
| Alberta | OEL STEL [ppm] | 30000 ppm |
| Alberta | OEL TWA | 9000 mg/m ³ |
| Alberta | OEL TWA [ppm] | 5000 ppm |

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| Carbon dioxide (124-38-9) | | |
|---------------------------|-----------------------|-------------------------|
| British Columbia | OEL STEL [ppm] | 15000 ppm |
| British Columbia | OEL TWA [ppm] | 5000 ppm |
| Manitoba | OEL STEL [ppm] | 30000 ppm |
| Manitoba | OEL TWA [ppm] | 5000 ppm |
| New Brunswick | OEL STEL | 54000 mg/m ³ |
| New Brunswick | OEL STEL [ppm] | 30000 ppm |
| New Brunswick | OEL TWA | 9000 mg/m ³ |
| New Brunswick | OEL TWA [ppm] | 5000 ppm |
| Newfoundland & Labrador | OEL STEL [ppm] | 30000 ppm |
| Newfoundland & Labrador | OEL TWA [ppm] | 5000 ppm |
| Nova Scotia | OEL STEL [ppm] | 30000 ppm |
| Nova Scotia | OEL TWA [ppm] | 5000 ppm |
| Nunavut | OEL STEL | 27000 mg/m ³ |
| Nunavut | OEL STEL [ppm] | 15000 ppm |
| Nunavut | OEL TWA | 9000 mg/m ³ |
| Nunavut | OEL TWA [ppm] | 5000 ppm |
| Northwest Territories | OEL STEL [ppm] | 30000 ppm |
| Northwest Territories | OEL TWA [ppm] | 5000 ppm |
| Ontario | OEL STEL [ppm] | 30000 ppm |
| Ontario | OEL TWA [ppm] | 5000 ppm |
| Prince Edward Island | OEL STEL [ppm] | 30000 ppm |
| Prince Edward Island | OEL TWA [ppm] | 5000 ppm |
| Québec | VECD (OEL STEL) | 54000 mg/m ³ |
| Québec | VECD (OEL STEL) [ppm] | 30000 ppm |
| Québec | VEMP (OEL TWA) | 9000 mg/m ³ |
| Québec | VEMP (OEL TWA) [ppm] | 5000 ppm |
| Saskatchewan | OEL STEL [ppm] | 30000 ppm |
| Saskatchewan | OEL TWA [ppm] | 5000 ppm |
| Yukon | OEL STEL | 27000 mg/m ³ |
| Yukon | OEL STEL [ppm] | 15000 ppm |
| Yukon | OEL TWA | 9000 mg/m ³ |
| Yukon | OEL TWA [ppm] | 5000 ppm |

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Ensure exposure is below occupational exposure limits (where available).

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment : Gloves. Face shield. Safety glasses.



Hand protection : Wear work gloves when handling containers. Wear heavy rubber gloves where contact with product may occur.



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| | |
|---------------------------|--|
| Eye protection | : Wear goggles and a face shield when transfilling or breaking transfer connections. Wear safety glasses with side shields. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines. Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection" and any provincial regulations, local bylaws, or guidelines. |
| Skin and body protection | : Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. |
| Respiratory protection | : Choose in accordance with provincial directives and regulations. Selection should also be based on the current CSA standards Z94.4, "Selection, care and use of respirators." Respirators should be approved by NIOSH and MSHA. Respiratory protection: Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Selection should be based on the current CSA standard Z94.4, "Selection, Care, and Use of Respirators." Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). |
| Thermal hazard protection | : Wear cold insulating gloves when transfilling or breaking transfer connections. |
| Other information | : Other protection : Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------------------|
| (a) Physical state | : Gas |
| (b) Colour | : Colourless. |
| (c) Odour | : No data available. |
| Odour threshold | : No data available |
| (d) Melting point | : No data available |
| Freezing point | : No data available |
| (e) Boiling point | : No data available |
| (f) Flammability | : Non flammable. |
| (g) Flammability (solid, gas) | : |
| (h) Flash point | : No data available |
| (i) Auto-ignition temperature | : No data available |
| (j) Decomposition temperature | : No data available |
| (k) pH | : Not applicable. |
| (l) Viscosity, kinematic | : Not applicable. |
| (m) Solubility | : Water: No data available |
| (n) Partition coefficient – n-octanol/water [log Pow] | : Not applicable. |
| (o) Vapour pressure | : Not applicable. |
| (p) Density | : |
| Relative gas density | : No data available |
| (r) Particle characteristics | : No data available |
| (v) Oxidizing properties | : None. |
| (w) Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : Not applicable. |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | : No reactivity hazard other than the effects described in sub-sections below. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : None. |
| Conditions to avoid | : None. |
| Incompatible materials | : None. |
| Hazardous decomposition products | : None. |

SECTION 11: Toxicological information

11.1 Likely routes of exposure : Inhalation

11.2 Symptoms related to the physical, chemical, and toxicological characteristics : No additional information available

11.3 Delayed and immediate effects and chronic effects

| | |
|-----------------------------------|---|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Skin corrosion/irritation | : Not classified pH: Not applicable. |
| Serious eye damage/irritation | : Not classified pH: Not applicable. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

11.4 Toxicity

| Nitrogen/CO2/Oxygen Mixture | |
|-----------------------------|-------------------|
| LC50 Inhalation - Rat [ppm] | No data available |

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

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12.2. Persistence and degradability

| Nitrogen/CO ₂ /Oxygen Mixture | |
|--|--|
| Persistence and degradability | No ecological damage caused by this product. |
| Oxygen (7782-44-7) | |
| Persistence and degradability | No data available. |
| Nitrogen (7727-37-9) | |
| Persistence and degradability | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9) | |
| Persistence and degradability | No ecological damage caused by this product. |

12.3. Bioaccumulative potential

| Nitrogen/CO ₂ /Oxygen Mixture | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | Not applicable. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |
| Oxygen (7782-44-7) | |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |
| Nitrogen (7727-37-9) | |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable for inorganic products. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9) | |
| BCF - Fish [1] | (no bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | 0.83 |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |

12.4. Mobility in soil

| Nitrogen/CO ₂ /Oxygen Mixture | |
|---|--|
| Mobility in soil | No data available. |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Oxygen (7782-44-7) | |
| Mobility in soil | No data available. |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Ecology - soil | Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely. |
| Nitrogen (7727-37-9) | |
| Mobility in soil | No data available. |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable for inorganic products. |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Ecology - soil | No ecological damage caused by this product. |
| Carbon dioxide (124-38-9) | |
| Mobility in soil | No data available. |
| Partition coefficient n-octanol/water (Log Pow) | 0.83 |
| Partition coefficient n-octanol/water (Log Kow) | Not applicable. |
| Ecology - soil | No ecological damage caused by this product. |

12.5. Other adverse effects

Effect on the ozone layer : None.

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SECTION 13: Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with container supplier/owner instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : UN1956
TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gases
Proper shipping name : COMPRESSED GAS, N.O.S.

Explosive Limit and Limited Quantity Index : 0.125 L
Passenger Carrying Road Vehicle or Passenger : 75 L
Carrying Railway Vehicle Index

14.2. Air and sea transport

IMDG

UN-No. (IMDG) : 1956
Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.
Class (IMDG) : 2 - Gases

IATA

UN-No. (IATA) : 1956
Proper Shipping Name (IATA) : Compressed gas, n.o.s.
Class (IATA) : 2 - Gases

SECTION 15: Regulatory information

15.1. National regulations

Nitrogen/CO₂/Oxygen Mixture

Listed on the Canadian DSL (Domestic Substances List)

Oxygen (7782-44-7)

Listed on the Canadian DSL (Domestic Substances List)

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

Carbon dioxide (124-38-9)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Oxygen (7782-44-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)



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Nitrogen (7727-37-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Carbon dioxide (124-38-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on Turkish inventory of chemical

SECTION 16: Other information

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Indication of changes:

Other information : When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Linde asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

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