

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

Reviewed on 08/14/2006

1 Identification of substance

· **Product details**

· **Trade name: Nitrogen**

· **Article number:** 003-01-0001BOC

· **Creation date:** 08/08/2006

· **Manufacturer/Supplier:**

BOC Canada Limited
5860 Chedworth Way
Mississauga, Ontario L5R 0A2
www.bocgases.ca

TELEPHONE NUMBER: (905) 501-1700

24-HOUR EMERGENCY TELEPHONE NUMBER: (905) 501-0802

EMERGENCY RESPONSE PLAN NO: 2-0101

Please ensure that this MSDS is received by the appropriate person

· **Information department:** Customer Service Centre: 1-866-385-5349

2 Composition/Data on components

· **Chemical characterization:**

· **CAS No. Description**

7727-37-9 Nitrogen Gaseous

· **Identification number(s)**

· **EINECS Number:** 231-783-9

3 Hazards identification

· **Hazard description:**

· **WHMIS-symbols:**

A - Compressed gas



· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

· **NFPA ratings (scale 0 - 4)**



· **Information pertaining to particular dangers for man and environment:** Not applicable.

(Contd. on page 2)

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

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Trade name: Nitrogen

(Contd. of page 1)

Classification system:

The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Not applicable

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
- **Measures for environmental protection:** Prevent seepage into sewage system, workpits and/or cellars.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Do not expose cylinder to temperatures higher than 50°C (122 °F)
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store cylinder in a well ventilated area.
Store in accordance with local fire code and/or building code or any pertaining regulations.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** Adequate local ventilation.

(Contd. on page 3)

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

Reviewed on 08/14/2006

Trade name: Nitrogen

(Contd. of page 2)

· **Components with limit values that require monitoring at the workplace:**

7727-37-9 Nitrogen Gaseous (50-100%)

EL Simple asphyxiant

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

Use atmosphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or self-contained breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary self-contained air supply atmosphere-supplying respirator) in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Eye protection:** Safety glasses

9 Physical and chemical properties

· **General Information**

Form:	Gaseous.
Color:	Colorless
Odor:	Odorless

· **Change in condition**

Melting point/Melting range: -210°C
Boiling point/Boiling range: < 35°C

· **Flash point:** Not applicable.

· **Danger of explosion:** Product does not present an explosion hazard.

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** No dangerous decomposition products known.

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(Contd. on page 4)

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

Reviewed on 08/14/2006

Trade name: Nitrogen

(Contd. of page 3)

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritating effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
 The substance is not subject to classification.

12 Ecological information

- **General notes:** Generally not hazardous for water

* 13 Disposal considerations

- **Product:**
- **Recommendation:**
 Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.
- **Uncleaned packagings:**
- **Recommendation:**
 Cylinder and unused product should be returned to vendor. Disposable cylinder must be disposed of in accordance with local regulations.
- **Recommended cleansing agent:** None applicable.

* 14 Transport information

- **TDG and DOT regulations:**



- **Hazard class:** 2
- **Identification number:** UN1066
- **Packing group:** -
- **Proper shipping name (technical name):** NITROGEN, COMPRESSED
- **Label:** 2.2
- **Packaging group:** -

(Contd. on page 5)

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

Reviewed on 08/14/2006

Trade name: Nitrogen

(Contd. of page 4)

· Maritime transport IMDG:



- **IMDG Class:** 2
- **UN Number:** 1066
- **Label** 2.2
- **Packaging group:** -
- **EMS Number:** F-C,S-V
- **Marine pollutant:** No
- **Propper shipping name:** NITROGEN, COMPRESSED

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 2
- **UN/ID Number:** 1066
- **Label** 2.2
- **Packaging group:** -
- **Propper shipping name:** NITROGEN, COMPRESSED

15 Regulations

· Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

(Contd. on page 6)

Material Safety Data Sheet

Printing date 08/14/2006

Version 1

Reviewed on 08/14/2006

Trade name: Nitrogen

(Contd. of page 5)

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Canadian substance listings:**· Canadian Domestic Substances List (DSL)**

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

Substance is not listed.

· Canadian Ingredient Disclosure list (limit 1%)

Substance is not listed.

· Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The substance is not subject to classification according to the sources of literature known to us.

· Safety phrases:

Keep container in a well-ventilated place.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Customer Service Centre: 1-866-385-5349**· Contact:** Canada Technical Services: 1-866-385-5349