

# Safety Data Sheet PTG-4012

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Date of issue: 05/11/2015 Revision date: 01/14/2016 Supersedes: 07/01/2015 Version: 1.1

### **SECTION 1: Identification**

#### **Product identifier**

Product form : Mixture : PTG-4012 Name

: (0.0001 - 1 %) Nitrogen Dioxide, (0.0001 - 20.9 %) Oxygen in Nitrogen. Formula

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

Use of the substance/mixture : Industrial use. Use as directed.

Recommended use and restrictions on use Calibration / Reference

#### 1.3. Details of the supplier of the safety data sheet

PortaGas (Praxair, Inc.) 1202 E Sam Houston Pkwy S Pasadena, TX 77503 - USA

T+1713-928-6477 - F+1713-928-9961 pdimsds@Praxair.com - www.praxair.com

### **Emergency telephone number**

Emergency number Onsite Emergencies: 1-800-645-4633

CHEMTREC: USA 1-800-424-9300, International 001-703-527-3887 (Collect calls accepted,

contract 17729)

### **SECTION 2: Hazard identification**

#### Classification of the substance or mixture

### **GHS-US** classification

Compressed gas H280

### **Label elements**

### **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS04

Signal word (GHS-US) : WARNING

: H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED Hazard statements (GHS-US)

Precautionary statements (GHS-US) P403 - Use and store only outdoors or in a well-ventilated place

CGA-PG27 - Read and follow the Safety Data Sheet (SDS) before use

CGA-PG21 - Open valve slowly

CGA-PG12 - Do not open valve until connected to equipment prepared for use CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles

CGA-PG10 - Use only with equipment rated for cylinder pressure CGA-PG06 - Close valve after each use and when empty CGA-PG05 - Use a back flow preventive device in the piping

CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) CGA-MP01 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention P261 - Avoid breathing gas, vapors

#### 2.3. Other hazards

No additional information available

# Unknown acute toxicity (GHS US)

Not applicable.

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EN (English US) SDS ID: PTG-4012 Page 1

# Safety Data Sheet

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### **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

# GHS-CA classification Compressed gas H280

# 2.2. GHS Label elements, including precautionary statements

### **GHS-CA labelling**

Hazard pictograms



Signal word : WARNING

Hazard statements : CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF

**HEATED** 

Precautionary statements : Use and store only outdoors or in a well-ventilated place

Read and follow the Safety Data Sheet (SDS) before use

Open valve slowly

Do not open valve until connected to equipment prepared for

use

Never put cylinders into unventilated areas of passenger

vehicles

Use only with equipment rated for cylinder pressure Close valve after each use and when empty Use a back flow preventive device in the piping

Protect from sunlight when ambient temperature exceeds

52°C (125°F)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention

Avoid breathing gas, vapors

#### 2.3. Other hazards

### 2.4. Unknown acute toxicity (GHS-CA)

No data available

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Common Name (Synonyms)
Nitrogen	(CAS No) 7727-37-9	78.8 - 100	Nitrogen gas / NITROGEN / Nitrogen, compressed
Oxygen	(CAS No) 7782-44-7	0 - 20.9	Oxygen (dissolved) / Oxygen gas / Oxygen, compressed / Oxygen, dissolved
Nitrogen dioxide	(CAS No) 10102-44-0	0 - 0.287	Nitrogen oxide (NO2) / Nitrogen oxide / Nitrogen(IV) oxide

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. 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. 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.

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08/10/2016 EN (English US) SDS ID: PTG-4012 2/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

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

No additional information available

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

Obtain medical assistance.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity

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

#### 5.3. Advice for firefighters

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 OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.

Special protective equipment for fire fighters

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Ensure adequate air ventilation. Evacuate area. Try to stop release. Monitor concentration of released product.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Try to stop release. Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

See also sections 8 and 13.

# **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 cylinders 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.

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08/10/2016 EN (English US) SDS ID: PTG-4012 3/11

# Safety Data Sheet

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### 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, if provided, 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.

### 7.3. Specific end use(s)

None.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

PTG-4012		
ACGIH	Not applicable	
OSHA	Not applicable	
Nitrogen dioxide (10102-44-0)		
ACGIH	ACGIH TLV-TWA (ppm)	0.2 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	9 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

Nitrogen (7727-37-9)	
ACGIH	Not applicable
OSHA	Not applicable

Oxygen (7782-44-7)	
ACGIH	Not applicable
OSHA	Not applicable

Nitrogen dioxide (10102-44-0)		
ACGIH	ACGIH TLV-TWA (ppm)	0.2 ppm
OSHA	OSHA PEL (Ceiling) (mg/m³)	9 mg/m³
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm
IDLH	US IDLH (ppm)	20 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	1.8 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	1 ppm

Alberta	OEL STEL (mg/m³)	9.4 mg/m³
Alberta	OEL STEL (ppm)	5 ppm
Alberta	OEL TWA (mg/m³)	5.6 mg/m³
Alberta	OEL TWA (ppm)	3 ppm
British Columbia	OEL Ceiling (ppm)	1 ppm
Manitoba	OEL TWA (ppm)	0.2 ppm
New Brunswick	OEL STEL (mg/m³)	9.4 mg/m³
New Brunswick	OEL STEL (ppm)	5 ppm

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08/10/2016 EN (English US) SDS ID: PTG-4012 4/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

New Brunswick	OEL TWA (mg/m³)	5.6 mg/m³
New Brunswick	OEL TWA (ppm)	3 ppm
New Foundland & Labrador	OEL TWA (ppm)	0.2 ppm
Nova Scotia	OEL TWA (ppm)	0.2 ppm
Nunavut	OEL STEL (mg/m³)	9.4 mg/m³
Nunavut	OEL STEL (ppm)	5 ppm
Nunavut	OEL TWA (mg/m³)	6 mg/m³
Nunavut	OEL TWA (ppm)	3 ppm
Northwest Territories	OEL STEL (ppm)	5 ppm
Northwest Territories	OEL TWA (ppm)	3 ppm
Ontario	OEL TWA (ppm)	3 ppm
Prince Edward Island	OEL TWA (ppm)	0.2 ppm
Québec	VEMP (mg/m³)	5.6 mg/m³
Québec	VEMP (ppm)	3 ppm
Saskatchewan	OEL STEL (ppm)	5 ppm
Saskatchewan	OEL TWA (ppm)	3 ppm
Yukon	OEL Ceiling (mg/m³)	9 mg/m³
Yukon	OEL Ceiling (ppm)	5 ppm
Nitrogen (7727-37-9)		

## 8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Alarm detectors should be used when toxic gases may be released. Product to be handled in a closed system. Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment

: Gloves, Safety glasses,





Eye protection

Skin and body protection

Respiratory protection

: Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.

: 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. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138. Safety shoes: Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines.

When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA)

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).

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08/10/2016 EN (English US) SDS ID: PTG-4012 5/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Gas

Appearance : Colorless gas. Turns yellow to reddish brown on exposure to light and air.

Color : Colorless red brown
Odor : Pungent Acrid
Odor threshold : <= 0.11 ppm
pH : Not applicable.

Relative evaporation rate (butyl acetate=1)

Relative evaporation rate (ether=1) : Not applicable. Melting point : No data available Freezing point : No data available Boiling point No data available No data available Flash point Relative evaporation rate (butyl acetate=1) No data available Relative evaporation rate (ether=1) : Not applicable. Flammability (solid, gas) : No data available No data available **Explosion limits** Explosive properties : Not applicable.

Oxidizing properties : None.

Vapor pressure : Not applicable.
Relative density : No data available
Relative vapor density at 20 °C : No data available

Solubility : Water: No data available

Log Pow : Not applicable.

Log Kow : Not applicable.

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : Not applicable.

Viscosity, dynamic : Not applicable.

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

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08/10/2016 EN (English US) SDS ID: PTG-4012 6/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Nitrogen dioxide (10102-44-0)		
LC50 inhalation rat (ppm)	57.5 ppm/4h	
ATE US (gases)	57.500 ppmV/4h	
Skin corrosion/irritation	: Not classified pH: Not applicable.	
Serious eye damage/irritation	: Not classified	
	pH: Not applicable.	
Respiratory or skin sensitization	: Not classified	

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : No known ecological damage caused by this product.

# 12.2. Persistence and degradability

PTG-4012		
Persistence and degradability	No ecological damage caused by this product.	
Nitrogen dioxide (10102-44-0)		
Persistence and degradability	Not applicable for inorganic gases.	
Nitrogen (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	
Oxygen (7782-44-7)		
Persistence and degradability	No ecological damage caused by this product.	

## 12.3. Bioaccumulative potential

PTG-4012		
Log Pow	Not applicable.	
Log Kow	Not applicable.	
Bioaccumulative potential	No ecological damage caused by this product.	
Nitrogen dioxide (10102-44-0)		
Log Pow	Not applicable for inorganic gases.	
Bioaccumulative potential	No data available.	
Nitrogen (7727-37-9)		
Log Pow	Not applicable.	
Log Kow	Not applicable.	
Bioaccumulative potential	No ecological damage caused by this product.	

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08/10/2016 EN (English US) SDS ID: PTG-4012 7/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Oxygen (7782-44-7)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.

### 12.4. Mobility in soil

PTG-4012		
Mobility in soil	No data available.	
Nitrogen dioxide (10102-44-0)		
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.	
Nitrogen (7727-37-9)		
Mobility in soil	No data available.	
Ecology - soil	No ecological damage caused by this product.	
Oxygen (7782-44-7)		
Mobility in soil	No data available.	
Ecology - soil	No ecological damage caused by this product.	

### 12.5. Other adverse effects

Effect on ozone layer : None

Effect on the global warming : No known effects from this product.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : 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.

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s., 2.2

UN-No.(DOT) : UN1956

Proper Shipping Name (DOT) : Compressed gas, n.o.s.

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Packaging Non Bulk (49 CFR 173.xxx) : 302;305 DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

DOT Symbols : G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in

parentheses following the PSN

DOT Packaging Exceptions (49 CFR 173.xxx) : 306;307 DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 172.101 HMT, Column 9a)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 172.101 HMT, Column 9b)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel

**Additional information** 

Emergency Response Guide (ERG) Number : 126

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08/10/2016 EN (English US) SDS ID: PTG-4012 8/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Other information : No supplementary information available.

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 cylinder 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.

In accordance with TDG

**TDG** 

UN-No. (TDG) : UN1956

Proper Shipping Name (TDG) : Compressed Gas, n.o.s.

TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gas.

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

Carrying Railway Vehicle Index

Transport by sea

UN-No. (IMDG) : 1956

Proper Shipping Name (IMDG) : COMPRESSED GAS, N.O.S.

Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

 Limited quantities (IMDG)
 : 120ml

 EmS-No. (1)
 : F-C

 MFAG-No
 : 620

 EmS-No. (2)
 : S-V

Air transport

UN-No. (IATA) : 1956

Proper Shipping Name (IATA) : COMPRESSED GAS, N.O.S.

Class (IATA) : 2
Instruction "cargo" (ICAO) : 200
Instruction "passenger" (ICAO) : 200

Instruction "passenger" - Limited quantities : FORBIDDEN

(ICAO)

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Nitrogen dioxide (10102-44-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302	
SARA Section 302 Threshold Planning Quantity (TPQ)	100

### Nitrogen (7727-37-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Oxygen (7782-44-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

### **CANADA**

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08/10/2016 EN (English US) SDS ID: PTG-4012 9/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

Nitrogen dioxide (10102-44-0)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material	
Nitrogen (7727-37-9)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class A - Compressed Gas	
Oxygen (7782-44-7)		
Listed on the Canadian DSL (Domestic Substances List)		
WHMIS Classification	Class A - Compressed Gas Class C - Oxidizing Material	

#### **EU-Regulations**

### Nitrogen dioxide (10102-44-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Nitrogen (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Oxygen (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Compressed gas H280 Acute Tox. 4 (Inhalation:gas) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

## **National regulations**

# Nitrogen dioxide (10102-44-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

# Nitrogen (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

# Oxygen (7782-44-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

#### 15.3. US State regulations

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08/10/2016 EN (English US) SDS ID: PTG-4012 10/11

# Safety Data Sheet

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

### Nitrogen dioxide (10102-44-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

### Nitrogen (7727-37-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### Oxygen (7782-44-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# **SECTION 16: Other information**

Revision date

: 01/14/2016

Training advice

Users of breathing apparatus must be trained.

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

Praxair 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

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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