

Safety Data Sheet P-6231

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 06/01/2000 Revision date: 09/30/2014 Supersedes: 05/01/2009

# SECTION: 1. Product and company identification

1.1. Product identifier

Product form : Mixture

Formula : Non-oxidizing mixtures of argon, carbon dioxide, nitrogen, and/or oxygen

Other means of identification : Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70

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

Use of the substance/mixture : Industrial use

Food applications.

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

Praxair, Inc.

39 Old Ridgebury Road

Danbury, CT 06810-5113 - USA

T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146

www.praxair.com

#### 1.4. 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: Hazards identification**

#### 2.1. Classification of the substance or mixture

# Classification (GHS-US)

Compressed gas H280

Full text of H-phrases: see section 16

# 2.2. Label elements

# **GHS-US** labeling

Hazard pictograms (GHS-US)



CHCUA

Signal word (GHS-US) : Warning

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

OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

CGA-HG24 - MAY SUPPORT COMBUSTION.

CGA-HG03 - MAY INCREASE RESPIRATION AND HEART RATE.

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing gas

P262 - Do not get in eyes, on skin, or on clothing

P271+P403 - Use and store only outdoors or in a well-ventilated place. CGA-PG05 - Use a back flow preventive device in the piping. CGA-PG10 - Use only with equipment rated for cylinder pressure.

CGA-PG06 - Close valve after each use and when empty. CGA-PG02 - 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-US)

No data available

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

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Nitrogen, compressed (Component)	(CAS No) 7727-37-9	0 - 95
Argon	(CAS No) 7440-37-1	0 - 95
Carbon dioxide	(CAS No) 124-38-9	0 - 95
Oxygen (Component)	(CAS No) 7782-44-7	0 - 23.5

#### **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.
- First-aid measures after skin contact
- : Wash with plenty of soap and water. For exposure, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
- 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. Get immediate
- medical attention.
- 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

No additional information available

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

None.

# **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.
- Protection during firefighting
- : Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.

Special protective equipment for fire fighters

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

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. Stop flow of product if safe to do so. Use water spray or fog to knock down fire fumes if possible.

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

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

General measures

: Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Stop leak if safe to do so.

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#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

No additional information available

#### 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.

## 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

Argon (7440-37-1)			
ACGIH	Not established		
USA OSHA	Not established		
Carbon dioxide (124-38-9)			
ACGIH	ACGIH TLV-TWA (ppm)	5000 ppm	
ACGIH	ACGIH TLV-STEL (ppm)	30000 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	9000 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
ACGIH	Not established		

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Argon (7440-37-1)			
USA OSHA	Not established		
Nitrogen, compressed (7727	-37-9)		
ACGIH	Not established		
USA OSHA	Not established		
Oxygen (7782-44-7)	Oxygen (7782-44-7)		
ACGIH	Not established		
USA OSHA	Not established		

#### 8.2. Exposure controls

Thermal hazard protection

Appropriate engineering controls

: Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

Hand protection : Wear working gloves when handling gas containers.

Eye protection : Wear safety glasses with side shields.

Respiratory protection : 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 (e.g., an organic vapor cartridge). For emergencies or instances with unknown exposure levels, use a

self-contained breathing apparatus (SCBA).

: None necessary.

Environmental exposure controls : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for

specific methods for waste gas treatment.

Other information : Wear safety shoes while handling containers.

### SECTION 9: Physical and chemical properties

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

Physical state : Gas

Appearance : Colorless gas.
Color : Colorless
Odor : No data availat

: No data available : No data available Odor threshold pН Not applicable. Relative evaporation rate (butyl acetate=1) : No data available 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 Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure Not applicable. Relative vapor density at 20 °C No data available Relative density No data available

Relative gas density : 1 - 1.5

Solubility : Water: No data available

Log Pow : Not applicable.

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Log Kow : Not applicable.

Viscosity, kinematic : Not applicable.

Viscosity, dynamic : Not applicable.

Explosive properties : Not applicable.

Oxidizing properties : None.

Explosive limits : No data available

9.2. Other information

Gas group : Compressed gas

# **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

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : 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
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated : Not classified

exposure) No known effects from this product.

Aspiration hazard : Not classified Not applicable.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

# 12.2. Persistence and degradability

Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70			
Persistence and degradability  No ecological damage caused by this product.			

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Argon (7440-37-1)		
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.		
Nitrogen, compressed (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

Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70			
Log Pow	Not applicable.		
Log Kow	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
Argon (7440-37-1)			
Log Pow	Not applicable.		
Log Kow	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
Carbon dioxide (124-38-9)			
BCF fish 1	(no bioaccumulation)		
Log Pow	0.83		
Log Kow	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
Nitrogen, compressed (7727-37-9)			
Log Pow	Not applicable.		
Log Kow	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
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

Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70			
Mobility in soil	No data available.		
Argon (7440-37-1)			
Mobility in soil	No data available.		
Ecology - soil	No ecological damage caused by this product.		
Carbon dioxide (124-38-9)			
Mobility in soil	No data available.		
Ecology - soil	No ecological damage caused by this product.		
Nitrogen, compressed (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 : Contains greenhouse gas(es) not covered by 842/2006/EC.

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : May be vented to atmosphere in a well ventilated place. Consult supplier for specific

recommendations. Do not discharge into any place where its accumulation could be

dangerous. Contact supplier if guidance is required.

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international

regulations. Contact supplier for any special requirements.

# **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1956 Compressed gas, n.o.s. (Nitrogen; Argon; Carbon dioxide; Oxygen), 2.2

UN-No.(DOT) : UN1956

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

(Nitrogen; Argon; Carbon dioxide; Oxygen)

Department of Transportation (DOT) Hazard

Classes

: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

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



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

parentheses following the PSN.

#### **Additional information**

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.

### Transport by sea

UN-No. (IMDG) : 1956

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

Class (IMDG) : 2 - Gases

Air transport

UN-No.(IATA) : 1956

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

Class (IATA) : 2

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70			
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard			
	Sudden release of pressure hazard Fire hazard		

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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## 15.2. International regulations

#### **CANADA**

Argon (7440-37-1)			
Listed on the Canadian DSL (Domestic Substances List)			
WHMIS Classification	Class A - Compressed Gas		
Carbon dioxide (124-38-9)			
Listed on the Canadian DSL (Domestic Substanc	es List)		
WHMIS Classification Class A - Compressed Gas			
Nitrogen, compressed (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**

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

Ox. Gas 1 H270 Compressed gas H280

Full text of H-phrases: see section 16

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

### 15.2.2. National regulations

No additional information available

## 15.3. US State regulations

Extendapak Food Gases EX 10, 12-16, 23-29, 41, 42, 46-51, 55-58, 61-63, 66, 67, and 70()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Argon (7440-37-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		
Carbon dioxide (124-38-9)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		
Nitrogen, compressed (77	Nitrogen, compressed (7727-37-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		

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Oxygen (7782-44-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

## Argon (7440-37-1)

- 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

## Carbon dioxide (124-38-9)

- 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

#### Nitrogen, compressed (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

Other information

: 9/30/2014 12:00:00 AM

: 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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# Full text of H-phrases:

Compressed gas	Gases under pressure Compressed gas
Ox. Gas 1	Oxidizing gases Category 1
H270	MAY CAUSE OR INTENSIFY FIRE; OXIDIZER
H280	CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED

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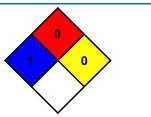
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



## **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard
Physical : 3 Serious Hazard

SDS US (GHS HazCom 2012) - Praxair

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.