

Safety Data Sheet P-4636

Making our planet more productive"

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1979

Revision date: 12/29/2014 Supersedes: 03/01/2012

SECTION: 1. Product and comp	any identification
1.1. Product identifier	
Product form	: Substance
Name	: Nitrous oxide
CAS No	: 10024-97-2
Formula	: N2O
Other means of identification	: Nitrous oxide
I.2. Relevant identified uses of the	substance or mixture and uses advised against
Jse of the substance/mixture	: Industrial use. Use as directed.
I.3. Details of the supplier of the s	afety data sheet
Praxair, Inc. 39 Old Ridgebury Road Danbury, CT 06810-5113 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1· <u>www.praxair.com</u>	716-879-2146
1.4. Emergency telephone number	
Emergency number	: Onsite Emergency: 1-800-645-4633
	CHEMTREC, 24hr/day 7days/week — Within USA: 1-800-424-9300, Outside USA: 001-703- 527-3887 (collect calls accepted, Contract 17729)
SECTION 2: Hazards identificati	on
2.1. Classification of the substance	e or mixture
	e or mixture
Classification (GHS-US) Ox. Gas 1 H270 Liquefied gas H280	e or mixture
Classification (GHS-US) Ox. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336	e or mixture
Classification (GHS-US) Dx. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16	e or mixture
Classification (GHS-US)Dx. Gas 1H270Liquefied gasH280STOT SE 3H336Full text of H-phrases: see section 162.2.Label elements	e or mixture
Classification (GHS-US) Dx. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	e or mixture
Classification (GHS-US) Dx. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	r HS03 HS04 HS07 HS04 HS07 HS04 HS07
Classification (GHS-US) Ox. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	
Classification (GHS-US) Ox. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: We want of the second secon
Classification (GHS-US) Ox. Gas 1 H270 Liquefied gas H280 STOT SE 3 H336 Full text of H-phrases: see section 16	 For the second se



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1 1	Date of issue: 01/01/1979	Revision date: 12/29/2014	Supersedes: 03/01/2012
	CGA-PG21 - Op	se only with equipment cleaned pen valve slowly.	,,,
		ose valve after each use and w otect from sunlight when ambie	vhen empty. ent temperature exceeds 52°C (125°F).

2.3.	Other hazards	
Other h	azards not contributing to the cation	: Asphyxiant in high concentrations.
		Contact with liquid may cause cold burns/frostbite.
2.4.	Unknown acute toxicity (GHS-US)	
		No data available

SECTION 3: Composition/information on ingredients

3.1. Substance			
N	ame	Product identifier	%
	trous oxide ain constituent)	(CAS No) 10024-97-2	100

3.2. Mixture

Not applicable

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	: For exposure to liquid, 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. Consult an eye specialist immediately.		
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.		
4.2. Most important symptoms and effects	s, both acute and delayed		
	No additional information available		
4.3. Indication of any immediate medical a	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 subs	stance or mixture		
Fire hazard	: Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion.		
Explosion hazard	: If venting or leaking gas catches fire, do not extinguish flames. Vapors may spread from leak, creating an explosive reignition hazard. Vapors can be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from product handling point. Contact with combustible materials such as oil, grease, and other hydrocarbon products, especially in the presence of ignition sources such as pilot lights, other flames, smoking, sparks, heaters, electrical equipment, and static discharges may cause fire or explosion. Explosive atmospheres may linger. Before entering an area, especially a confined area, check the atmosphere with an appropriate device.		
Reactivity	: No reactivity hazard other than the effects described in sub-sections below.		

EN (English US)

SDS ID: P-4636



Safety Data Sheet P-4636

Making our planet more productive" according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 12/29/2014 Supersedes: 03/01/2012

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 : Wear gas tight chemically protective clothing in combination with self contained breath apparatus. Standard protective clothing and equipment (Self Contained Breathing App for fire fighters.		
Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers 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.	t
Other information	: Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.)	
	Oxidizing agent; vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion.	
	Smoking, flames, and electric sparks are potential explosion hazards.	
SECTION 6: Accidental release meas	ures	
6.1. Personal precautions, protective equ		
General measures	: Evacuate personnel to a safe area. Appropriate self-contained breathing apparatus may be required. Approach suspected leak area with caution. Remove all sources of ignition. Vapor can spread from spill. Contact with flammable materials may cause fire or explosion. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, check the atmosphere with an appropriate device.	
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		
	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 containmer	nt 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.	



Safety Data Sheet P-4636

according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Making our planet more productive" Revision date: 12/29/2014

Date of issue: 01/01/1979

Supersedes: 03/01/2012

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store only where temperature will not exceed 125°F (52°C). Post "No Smoking or Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g., NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.
	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)

Exposure controls

8.2.

None.

SECTION 8: Exposure controls/personal protection

Control parameters		
oxide (10024-97-2)		
	ACGIH TLV-TWA (ppm)	50 ppm
HA	Not established	
	oxide (10024-97-2)	ACGIH TLV-TWA (ppm)

: Use a local exhaust system, if necessary, to prevent oxygen deficiency and to keep hazardous Appropriate engineering controls fumes and gases below all applicable limits in the worker's breathing zone. MECHANICAL ENGINEERING CONTROLS: Not recommended as a primary ventilation system to control worker's exposure. USE ONLY IN A CLOSED SYSTEM. An explosion-proof, corrosionresistant, forced-draft fume hood is preferred. Hand protection : Wear working gloves when handling gas containers. Wear safety glasses with side shields. Wear safety glasses with side shields or goggles when Eye protection transfilling or breaking transfer connections. Wear goggles and a face shield when transfilling or breaking transfer connections. When workplace conditions warrant respirator use, follow a respiratory protection program that Respiratory protection 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). Thermal hazard protection Wear cold insulating gloves when transfilling or breaking transfer connections. 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 Consider the use of flame resistant safety clothing. Wear safety shoes while handling containers.

SECTION 9: Physical and chemical properties			
9.1. Information on basi	9.1. Information on basic physical and chemical properties		
Physical state	: Gas		
Appearance	: Colorless, non-flammable gas.		
Molecular mass	: 44 g/mol		
Color	: Colorless.		
Odor	: Sweetish.		
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EN (English US)

SDS ID: P-4636



Safety Data Sheet P-4636

Making our planet more productive" according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Making our planet more productive	Date of issue: 01/01/1979 Revision date: 12/29/2014 Supersedes: 03/01/2012		
Odor threshold	: Odor threshold is subjective and inadequate to warn for overexposure.		
рН	: Not applicable.		
Relative evaporation rate (butyl acetate	=1) : No data available		
Relative evaporation rate (ether=1)	: Not applicable.		
Melting point	: -90.81 °C		
Freezing point	: No data available		
Boiling point	: -88.48 °C		
Flash point	: Not applicable.		
Critical temperature	: 36.4 °C		
Auto-ignition temperature	: Not applicable.		
Decomposition temperature	: 650 °C		
Flammability (solid, gas)	: No data available		
Vapor pressure	: 5080 kPa		
Critical pressure	: 7255 kPa		
Relative vapor density at 20 °C	: No data available		
Relative density	: 1.2		
Specific gravity / density	: 0.785 g/cm ³ (at 20 °C)		
Relative gas density	: 1.5		
Solubility	: Water: 2.2 mg/l		
Log Pow	: Not applicable.		
Log Kow	: Not applicable.		
Viscosity, kinematic	: Not applicable.		
Viscosity, dynamic	: Not applicable.		
Explosive properties	: Not applicable.		
Oxidizing properties	: Oxidizer.		
Explosive limits	: Non flammable.		
9.2. Other information			
Gas group	: Liquefied gas		
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.		

SECT	ION 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. In the presence of catalysts (e.g. halogen products, mercury, nickel, platinum) the rate of decomposition increases and decomposition can occur at even lower temperatures. At temperatures over 575°C and at atmospheric pressure, nitrous oxide decomposes into nitrogen and oxygen. Pressurized nitrous oxide can also decompose at temperatures equal or greater than 300°C. Nitrous oxide dissociation is irreversible and exothermic, leading to a considerable rise in pressure.
10.3.	Possibility of hazardous reactions	
		Violently oxidizes organic material.
10.4.	Conditions to avoid	
		Heat.
10.5.	Incompatible materials	
		Flammable materials, Hydrocarbons, Avoid oil, grease and all other combustible materials, Asphalt, Ethers, Alcohols, Acids, and Aldehydes. Alkali metals, Boron (B), tungsten carbide, and powdered aluminum.



Safety Data Sheet P-4636

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

Revision date: 12/29/2014 Date of issue: 01/01/1979

Supersedes: 03/01/2012

10.6. Hazardous decomposition products

> Excess heat. Nitrous oxide decomposes explosively at 1202°F (650°C) into two parts nitrogen and one part oxygen. In the presence of catalytic surfaces such as Silver, Platinum (Pt), Cobalt (Co), and Copper or nickel oxide, this reaction occurs at lower temperatures.

SECTION 11: Toxicological information		
11.1. Information on toxicologic	11.1. Information on toxicological effects	
Acute toxicity	: Not classified	
Nitrous oxide (\f)10024-97-2		
LC50 inhalation rat (ppm)	> 250 ppm/4h	
Skin corrosion/irritation	: Not classified	
	pH: Not applicable.	

	1 11
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)	: MAY CAUSE DROWSINESS OR DIZZINESS.
Specific target organ toxicity (repeated	: Not classified
exposure)	No known effects from this product.
Aspiration hazard	: Not classified
	Not applicable.

SECTION 12: Ecological information	tion
12.1. Toxicity	
Ecology - general	: No data available. No ecological damage caused by this product.
12.2. Persistence and degradability	
Nitrous oxide (10024-97-2)	
Persistence and degradability	Not applicable for inorganic gases.
12.3. Bioaccumulative potential	
Nitrous oxide (10024-97-2)	
Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
Nitrous oxide (10024-97-2)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.
12.5. Other adverse effects	
Effect on ozone layer	: None.
Global warming potential [CO2=1]	: 298

Effect on the global warming : When discharged in large quantities may contribute to the greenhouse effect.



Safety Data Sheet P-4636

 $v_{\mathcal{W}^{"}}$ according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 12/29/2014 Supersedes: 03/01/2012

SECTION 13: Disposal consideration	
13.1. Waste treatment methods	De set d'achanne iste annulles achan its annualation an bible des names. Osciaet annulles it
Waste treatment methods	: Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
Waste disposal recommendations	: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1070 Nitrous oxide, 2.2
UN-No.(DOT)	: UN1070
Proper Shipping Name (DOT)	: Nitrous oxide
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 5.1 - Oxidizer
DOT Special Provisions (49 CFR 172.102)	: A14 - This material is not authorized to be transported as a limited quantity or consumer commodity in accordance with 173.306 of this subchapter when transported aboard an aircraft.
Additional information	
Emergency Response Guide (ERG) Number	: 122 (UN1070, UN2201)
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)	: 1070
Proper Shipping Name (IMDG)	: NITROUS OXIDE
Class (IMDG)	: 2 - Gases
MFAG-No	: 122
Air transport	
UN-No.(IATA)	: 1070
Proper Shipping Name (IATA)	: Nitrous oxide
Class (IATA)	: 2
Civil Aeronautics Law	: Gases under pressure/Gases nonflammable nontoxic under pressure
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
Nitrous oxide (10024-97-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard

EN (English US)

SDS ID: P-4636



Safety Data Sheet P-4636

Making our planet more productive" according to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 12/29/2014 Supersedes: 03/01/2012

 15.2. International regulations

 CANADA

 Nitrous oxide (10024-97-2)

 Listed on the Canadian DSL (Domestic Substances List)

 WHMIS Classification
 Class A - Compressed Gas Class C - Oxidizing Material Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU-Regulations

	Nitrous oxide (10024-97-2)
	Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Classification according to Degulation (EC) No. 4979/2000 [C] D	

Classification according to Regulation (EC) No. 1272/2008 [CLP] Ox. Gas 1 H270 H270

Liquefied gas H280

Full text of H-phrases: see section 16

15.2.2. National regulations Nitrous oxide (10024-97-2)

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 the Canadian IDL (Ingredient Disclosure List)

15.3. US State regulations	
Nitrous oxide(10024-97-2)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	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

: 12/29/2014 12:00:00 AM



Safety Data Sheet P-4636

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

maning our planet more productive	Date of issue: 01/01/1979 Revision date: 12/29/2014 Supersedes: 03/01/2012
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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PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair Technology, Inc. in the United States and/or other countries.

Full text of H-phrases:

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Liquefied gas	Gases under pressure Liquefied gas
Ox. Gas 1	Oxidizing gases Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H270	MAY CAUSE OR INTENSIFY FIRE; OXIDIZER
H280	CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
H336	MAY CAUSE DROWSINESS OR DIZZINESS
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention 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.
NFPA specific hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.
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.