NSN 6830-01-310-8102 Hudson Technologies, Inc SPE4A6-16-D-0226



Oxygen (0.001 - 19.49%) in balance Nitrogen Safety Data Sheet 50258 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/26/2015 Version: 1.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Oxygen (0.001 - 19.49%) in balance Nitrogen
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Test gas/Calibration gas.
1.3. Details of the supplier of the sa	fety data sheet
Calgaz, division of Air Liquide	
821 Chesapeake Drive	
Cambridge, 21613 - USA T 1-410-228-6400 - F 1-410-228-4251	
info@Calgaz.com - www.Calgaz.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300
	Internationally: 1-703-527-3887
SECTION 2. Horordo identificatio	
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	
	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US)	: P202 - Do not handle until all safety precautions have been read and understood
	P271 - Use only outdoors or in a well-ventilated area
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P313 - Get medical advice/attention
	P403 - Store in a well-ventilated place
	CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
	CGA-PG05 - Use a back flow preventive device in the piping CGA-PG06 - Close valve after each use and when empty
	CGA-PG10 - Use only with equipment rated for cylinder pressure
	CGA-PG14 - Approach suspected leak area with caution
	CGA-PG21 - Open valve slowly
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS-U	JS)
Not applicable	
SECTION 3: Composition/inform	ation on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	Classification (GHS-US)
Nitrogen	(CAS No) 7727-37-9	80.51 - 99.999	Compressed gas, H280
Oxygen	(CAS No) 7782-44-7	0.001 - 19.49	Ox. Gas 1, H270

Full text of H-phrases: see section 16

Tuil text of H-philases. see section To	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Adverse effects not expected from this product. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Adverse effects not expected from this product.
First-aid measures after eye contact	: Adverse effects not expected from this product.
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation. None under normal use.
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.
Symptoms/injuries upon intravenous administration	: Not known.
Chronic symptoms	: Adverse effects not expected from this product.
, , , , , , , , , , , , , , , , , , ,	attention and special treatment needed
, , , , , , , , , , , , , , , , , , ,	attention and special treatment needed ng is difficult, give oxygen.
4.3. Indication of any immediate medical If you feel unwell, seek medical advice. If breathin	•
4.3. Indication of any immediate medical If you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures	•
4.3. Indication of any immediate medical If you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media	ng is difficult, give oxygen.
4.3. Indication of any immediate medical If you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media	•
 4.3. Indication of any immediate medical If you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 	ng is difficult, give oxygen. : Use extinguishing media appropriate for surrounding fire. : Do not use water jet.
 4.3. Indication of any immediate medical lf you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the sub- 	ng is difficult, give oxygen. : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. ostance or mixture
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 4.3. Indication of any immediate medical lf you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the sub Fire hazard Explosion hazard Reactivity 	 ng is difficult, give oxygen. : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. Destance or mixture : The product is not flammable. : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
 4.3. Indication of any immediate medical lf you feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 	 ng is difficult, give oxygen. : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. Destance or mixture : The product is not flammable. : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
 4.3. Indication of any immediate medical dyou feel unwell, seek medical advice. If breathin SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2. Special hazards arising from the sut Fire hazard Explosion hazard Reactivity 5.3. Advice for firefighters 	 is difficult, give oxygen. : Use extinguishing media appropriate for surrounding fire. : Do not use water jet. >stance or mixture : The product is not flammable. : Product is not flammable. : Product is not explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. : None known. : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray

6.1. Personal precautions, protective	equipment and emergency proced	ures	
General measures	: Ensure adequate ventilation.		
6.1.1. For non-emergency personnel	1. For non-emergency personnel		
Protective equipment	: Wear protective equipment co	nsistent with the site emergency plan.	
Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjac premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. K upwind.			
6.1.2. For emergency responders			
Protective equipment	: Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.		
Emergency procedures	: Evacuate and limit access. Ve	ntilate area.	
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6.2. Environmental precautions				
Try to stop release if safe to do so.				
6.3. Methods and material for containment and cleaning up				
For containment	: Try to stop release if safe to do so.			
Methods for cleaning up	: Dispose of this material and its container in accordance with local regulations.			
6.4. Reference to other sections				
See also Sections 8 and 13.				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure.			
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.			
Safe handling of the gas receptacle	 Protect cylinders from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. 			
Safe use of the product	: The substance must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.			
Hygiene measures	: Do not eat, drink or smoke when using this product.			
7.2. Conditions for safe storage, inclu	ding any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	 Do not expose to temperatures exceeding 52°C (125°F). Keep container closed when not in use. Protect cylinder from physical damage. Store in well ventilated area. 			
Incompatible products	: None known.			
Incompatible materials	: None known. Flammable materials.			
Storage area	: Store away from heat. Store in a well-ventilated place.			
7.3. Specific end use(s)				

7.3. Specific end us

See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Oxygen (0.001 - 19.49%) in balance Nitrogen			
ACGIH	Not applicable		
OSHA	Not applicable		
Oxygen (7782-44-7)	Oxygen (7782-44-7)		
ACGIH	Not applicable		
OSHA	Not applicable		
Nitrogen (7727-37-9)			
ACGIH	Not applicable		
OSHA	Not applicable		

8.2. Exposure controls

Appropriate engineering controls	regularly checked for leakages.	: Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly checked for leakages. Consider work permit system e.g. for maintenance activities. Ensure exposure is below occupational exposure limits.	
Hand protection	: Wear working gloves when han	dling gas containers. 29 CFR 1910.138: Hand Protect	tion.
Eye protection	: Wear safety glasses with side s	hields. 29 CFR 1910.133: Eye and Face Protection.	
Skin and body protection	: Wear suitable protective clothin	ig, e.g lab coats, coveralls or flame resistant clothing] .
Respiratory protection	: None necessary during normal	and routine operations. See Sections 5 & 6.	
Thermal hazard protection	: None necessary during normal	and routine operations.	
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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. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemica	l properties
0.1. Information on basic physical and	l chemical properties
Physical state	: Gas
Appearance	: Clear, colorless gas.
Molecular mass	: Not applicable for gas-mixtures.
Color	: Colorless
Ddor	: Odorless
Odor threshold	: No data available
ЭН	: Not applicable for gas-mixtures.
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gas-mixtures.
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: See Sect. 2.1 & 2.2
Vapor pressure	: Not applicable.
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Relative gas density	: Heavier than air.
Solubility	 Water: Solubility in water of component(s) of the mixture : •: 39 mg/l •: 20 mg/l
_og Pow	: Not applicable for gas-mixtures.
_og Kow	: Not applicable for gas-mixtures.
/iscosity, kinematic	: Not applicable.
/iscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable - not flammable.
Dxidizing properties	: None.
Explosive limits	: Not applicable - not flammable
0.2. Other information	
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10.1.	Reactivity		
None k	nown.		
10.2.	Chemical stability		
Stable (under normal conditions.		
10.3.	Possibility of hazardous reactions		
None k	nown.		
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
None k	nown.		
10.6.	Hazardous decomposition products		
l Inder r	normal conditions of storage and use bazardous decomposition products should not be produced		

Under normal conditions of storage and use hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
•			
Oxygen (7782-44-7)	000000		
LC50 inhalation rat (ppm)	800000 ppm/4h		
Nitrogen (7727-37-9)			
LC50 inhalation rat (ppm)	820000 ppm/4h		
Skin corrosion/irritation	: Not classified		
	pH: Not applicable for gas-mixtures.		
Serious eye damage/irritation	: Not classified		
	pH: Not applicable for gas-mixtures.		
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)			
Aspiration hazard	: Not classified		
Symptoms/injuries after inhalation	: May displace oxygen and cause rapid suffocation. None under normal use.		
Symptoms/injuries after skin contact	: Adverse effects not expected from this product.		
Symptoms/injuries after eye contact	: Adverse effects not expected from this product.		
Symptoms/injuries after ingestion	: Ingestion is not considered a potential route of exposure.		
Symptoms/injuries upon intravenous administration	: Not known.		
Chronic symptoms	: Adverse effects not expected from this product.		

SECTION 12: Ecological information 12.1. Toxicity

Ecology - general

: No ecological damage caused by this product.

12.2. Persistence and degradability			
Oxygen (0.001 - 19.49%) in balance Nitrogen			
Persistence and degradability No data available.			
Oxygen (7782-44-7)			
Persistence and degradability No ecological damage caused by this product.			
Nitrogen (7727-37-9)			
Persistence and degradability	No ecological damage caused by this product.		
12.3. Bioaccumulative potential			
Oxygen (0.001 - 19.49%) in balance Nitrogen			
Log Pow	Not applicable for gas-mixtures.		
Log Kow	Not applicable for gas-mixtures.		
Bioaccumulative potential	No data available.		
Oxygen (7782-44-7)			
Log Pow	Not applicable for inorganic gases.		
Bioaccumulative potential	No ecological damage caused by this product.		
Nitrogen (7727-37-9)			
Log Pow	Not applicable for inorganic gases.		
Bioaccumulative potential	No ecological damage caused by this product.		

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12.4. Mobility in soil	
Oxygen (0.001 - 19.49%) in balance Nitrogen	
Mobility in soil	No data available.
Oxygen (7782-44-7)	
Ecology - soil	No ecological damage caused by this product.
Nitrogen (7727-37-9)	No coolegical domage coursed by this product
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 ecological damage caused by this product.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste treatment methods	: Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not exceeded.
Waste disposal recommendations	 Refer to the CGA Pamphlet P-63 "Disposal of Gases" available at www.cganet.com for more guidance on suitable disposal methods.
SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s. (Oxygen, Nitrogen), 2.2
UN-No.(DOT)	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.
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 PSN requiring a technical name
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306;307
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 302;305
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
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	
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.
ADR	
Transport document description	: UN 1956, 2.2
Class (ADR)	: 2 - Gases

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lazard labels (ADR)	: 2.2 - Non-flammable compressed gas	
	2	
ransport by sea		
JN-No. (IMDG)	: 1956	
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.	
Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases	
Air transport		
JN-No.(IATA)	: 1956	
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.	
Class (IATA)	: 2	
SECTION 15: Regulatory inform	nation	
5.1. US Federal regulations		
Oxygen (7782-44-7)		
Listed on the United States TSCA (Toxic	Substances Control Act) inventory	
Nitrogen (7727-37-9)		
Listed on the United States TSCA (Toxic	Substances Control Act) inventory	
15.2. International regulations		
CANADA		
Oxygen (7782-44-7)		
Listed on the Canadian DSL (Domestic		
	Sustances List) Class A - Compressed Gas Class C - Oxidizing Material	
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15.3. US State regulations

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	
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	

Indication of changes	 Revised safety data sheet in accordance with OSHA final rule on GHS implementation promulgated March 26, 2012.
Other information	 This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this product.
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

SDS US (GHS HazCom 2012)

This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR, 1910.1200. Other government regulations must be reviewed for applicability to this gas mixture. To the best of Calgaz's knowledge, the information contained herein is reliable and accurate as of this date; however, accruacy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.