

Safety Data Sheet P-18-20932

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

Issue date: 06/02/2021

Version: 1.0

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SECTION: 1. Product and	d company identification
1.1. Product identifier	
Product form	: Mixture
Product name	: Nitrogen balance - Chloroform 0.1% - 0.999%
Other means of identification	: Mixture of Chloroform and Nitrogen
I.2. Relevant identified us	ses of the substance or mixture and uses advised against
Jse of the substance/mixture	: Industrial use; Use as directed.
1.3. Details of the supplie	r of the safety data sheet
	Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 <u>www.praxair.com</u>
1.4. Emergency telephone	e number
Emergency number	: Onsite Emergency: 1-800-645-4633
	CHEMTREC, 24 hr/day 7 days/week — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729)
SECTION 2: Hazard iden	tification
2.1. Classification of the s	substance or mixture
GHS-US classification Press. Gas (Comp.) H280 Carc. 1B H350	
2.2. Label elements	
GHS US labelling	
Hazard pictograms (GHS US)	GHS04 GHS08
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H350 - MAY CAUSE CANCER. H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
Precautionary statements (GHS I	

- 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-PG12 Do not open valve until connected to equipment prepared for use.
- CGA-PG06 Close valve after each use and when empty.
- CGA-PG02 Protect from sunlight when ambient temperature exceeds 52°C (125°F).

EN (English)

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Nitrogen balance - Chloroform 0.1% - 0.999% Safety Data Sheet P-18-20932 This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Making our planet more productive" Issue date: 06/02/2021 Version: 1.0 2.3. **Other hazards** Other hazards which do not result in : Asphyxiant in high concentrations. classification 24 Unknown acute toxicity (GHS US) No data available **SECTION 3: Composition/information on ingredients** 3.1. **Substances** Not applicable 3.2. **Mixtures** Name **Product identifier** % 99.001 - 99.9 Nitrogen (CAS-No.) 7727-37-9 Chloroform (CAS-No.) 67-66-3 0.1 - 0.999**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. Perform cardiopulmonary resuscitation 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 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. 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 Extinguishing media** 5.1. Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Special hazards arising from the substance or mixture 5.2. 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 their provincial and local fire code regulations. 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. Other information Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

SECT	SECTION 6: Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures		
General	eneral measures : Ensure adequate air ventilation. Evacuate area. Monitor concentration of released product.		
6.1.1.	For non-emergency personnel		
		No additional information available	
6.1.2.	For emergency responders		
		No additional information available	
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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 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 containers 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. Conditions for safe storage, including any incompatibilities 7.2. 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** Chloroform (67-66-3) ACGIH ACGIH OEL TWA [ppm] 10 ppm USA OSHA OSHA PEL C 240 mg/m³ USA OSHA OSHA PEL C [ppm] 50 ppm Nitrogen (7727-37-9) ACGIH Not established USA OSHA Not established **Exposure controls** 8.2. Appropriate engineering controls : Alarm detectors should be used when toxic gases may be released. Product to be handled in a closed system and under strictly controlled conditions. Preferably use permanent leak-tight installations (e.g. welded pipes). Ensure exposure is below occupational exposure limits (where available). Provide adequate general and local exhaust ventilation.

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Eye protection	: Wear safety glasses	s with side shields.
Skin and body protection		bes and work gloves for cylinder handling, and protective clothing where opriate chemical gloves during cylinder changeout or wherever contact with
Respiratory protection	meets or exceeds th air-supplied or air-p has the appropriate used, the cartridge instances with unkn Keep self contained breathing apparatus	nditions warrant respirator use, follow a respiratory protection program that the requirements of the appropriate Health and Safety Regulations. Use an urifying cartridge if the action level is exceeded. Ensure that the respirator protection factor for the exposure level. If cartridge type respirators are must be appropriate for the chemical exposure. For emergencies or own exposure levels, use a self-contained breathing apparatus (SCBA). breathing apparatus readily available for emergency use. Self contained is recommended, where unknown exposure may be expected, e.g. during es on installation systems.
Thermal hazard protection	: Wear cold insulating	gloves when transfilling or breaking transfer connections.

SECTION 9:	Physical	and chemica	properties

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No additional information available

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.

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This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Making our planet more productive" Issue date: 06/02/2021 Version: 1.0 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
Chloroform (67-66-3)	
LD50 oral rat	450 mg/kg
LD50 dermal rabbit	> 20 g/kg
LC50 Inhalation - Rat	47702 mg/m ³ (Exposure time: 4 h)
LC50 Inhalation - Rat [ppm]	63602 ppm/1h
ATE US (oral)	450 mg/kg bodyweight
ATE US (gases)	700 ppmv/4h
ATE US (vapours)	3 mg/l/4h
ATE US (dust,mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: Not applicable.
erious eye damage/irritation	: Not classified
	pH: Not applicable.
espiratory or skin sensitisation	: Not classified
erm cell mutagenicity	: Not classified
Carcinogenicity	: MAY CAUSE CANCER.
Chloroform (67-66-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

SECTION 12: Ecological information

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12.1. Toxicity
```

Aspiration hazard

Chloroform (67-66-3)		
LC50 - Fish [1]	71 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 - Crustacea [1]	29 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 - Fish [2]	18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])	
12.2. Persistence and degradability		
Nitrogen balance - Chloroform 0.1% - 0.999%		
Persistence and degradability No ecological damage caused by this product.		

: Not classified

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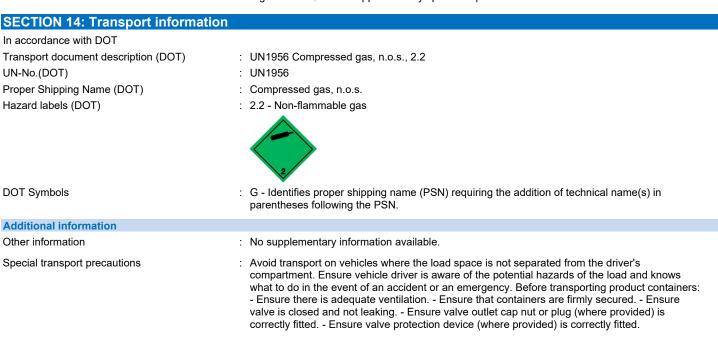


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Nitrogen (7727-37-9)			
Persistence and degradability	No ecological damage caused by this product.		
12.3. Bioaccumulative potential			
Nitrogen balance - Chloroform 0.1% - 0.999%			
Partition coefficient n-octanol/water (Log Pow)	Not applicable.		
Partition coefficient n-octanol/water (Log Kow)	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
Chloroform (67-66-3)			
BCF - Fish [1]	1.4 – 13		
Partition coefficient n-octanol/water (Log Pow)	2 (at 25 °C)		
Nitrogen (7727-37-9)			
Partition coefficient n-octanol/water (Log Pow)	Not applicable for inorganic products.		
Partition coefficient n-octanol/water (Log Kow)	Not applicable.		
Bioaccumulative potential	No ecological damage caused by this product.		
I2.4. Mobility in soil			
Nitrogen balance - Chloroform 0.1% - 0.999%			
Mobility in soil	No data available.		
Nitrogen (7727-37-9)			
Mobility in soil	No data available.		
Ecology - soil	No ecological damage caused by this product.		
2.5. Other adverse effects			
	: None.		
,			
SECTION 13: Disposal considerations	\$		
I3.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.		
SECTION 14: Transport information			
n accordance with DOT			
Fransport document description (DOT)	: UN1956 Compressed gas, n.o.s., 2.2		
JN-No.(DOT)	: UN1956		
	: Compressed gas, n.o.s.		
	: 2.2 - Non-flammable gas		



EN (English)

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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
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

Chloroform (67-66-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	10 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb	
SARA Section 313 - Emission Reporting	0.1 %	

15.2. International regulations

CANADA

Chloroform (67-66-3)

Listed on the Canadian DSL (Domestic Substances List)

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Chloroform (67-66-3)

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

15.2.2. National regulations

Chloroform (67-66-3)

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 Japanese ISHL (Industrial Safety and Health Law) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on EPA Hazardous Air Pollutant (HAPS) Listed on the TCSI (Taiwan Chemical Substance Inventory)



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15.3. US State regulations		
Nitrogen balance - Chloroform 0.1% - 0.999%()		
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	

Chloroform (67-66-3)					
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 significant risk level (NSRL)	
Yes	Yes	No	No		
Nitrogen (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 significant risk level (NSRL)	
No	No	No	No		
Chloroform (67-66-3)					
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) - Special Hazardous Substances 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



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SECTION 16: Other information	
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.
	Linde 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 Linde 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 Linde Inc, it is the user's obligation to determine the conditions of safe use of the product.
	Linde SDSs are furnished on sale or delivery by Linde or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your sales representative, local distributor, or supplier, or download from www.lindeus.com. If you have questions regarding Linde SDSs, would like the document number and date of the latest SDS, or would like the names of the Linde suppliers in your area, phone or write the Linde Call Center (Phone: 1-800-772-9247; Address: Linde Call Center, Linde Inc, P.O. Box 44, Tonawanda, NY 14151-0044).
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