

15-Nov-2016

ACCORDING TO US CFR 1910.1200

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	NITROGEN, COMPRESSED.
Synonym(s)	CALIBRATING GAS MIX, NITROGEN, NITROGEN, TECHNICAL.
CAS No.	7727-37-9
EC No.	231-783-9
1.2 Relevant identified uses of the	ne substance or mixture and uses advised against
Identified Use(s)	Industrial gas.
Uses Advised Against	Not known.
1.3 Details of the supplier of the	safety data sheet
Company Identification	Hudson Technologies Company
Address	PO Box 1541
	One Blue Hill Plaza
	Pearl River, New York
	USA
Postal code	10965
Telephone	+1 (800) 953 2244
Fax	+1 (845) 512 6070
E-mail	information@hudsontech.com
1.4 Emergency telephone number	
Company	+1 (800) 501 4376
CHEMTREC (U.S.)	+1 (800) 424 9300
INTERNATIONAL	+1 (703) 527 3887



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2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture		
US CFR 1910.1200	Gases under pressure; Press. Gas; Compressed gas.	
2.2 Label elements		
Product Name		
Product Name	NITROGEN, COMPRESSED.	
Hazard Pictogram(s)	\wedge	
	GHS04	
	61304	
Signal Word(s)	Warning.	
Hazard Statement(s)	H280: Contains gas under pressure; may explode if heated.	
	OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID	
	SUFFOCATION.	
	D202. Do not bondlo until all opfatu processions have been read	
Precautionary Statement(s)	P202: Do not handle until all safety precautions have been read	
	and understood.	
	P271+P403: Use and store only outdoors or in a well-ventilated place.	
	P304, P340, P313: IF INHALED: Remove person to fresh air and	
	keep comfortable for breathing. Get medical advice/attention.	
	P410+P403: Protect from sunlight. Store in a well-ventilated place.	
2.3 Other hazards		
	May cause asphyxiation when concentrations are sufficient to	
	reduce oxygen below safe breathing levels.	
2.4 Additional Information		
	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).	



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

This SDS is available in languages other than English.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
INGREDIENT(S)				
Nitrogen	7727-37-9	100	Press. Gas,	GHS04
			Compressed gas; H280	

4. SECTION 4: FIRST AID MEASURES		
4.1 Description of first aid measures		
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in	
	a position comfortable for breathing. Administer oxygen if	
	necessary.	
Skin Contact	Wash skin with water.	
Eye Contact	Flush eyes with water for at least 15 minutes.	
Ingestion	Unlikely route of exposure.	
4.2 Most important symptoms and effects, both acute and delayed		
	None anticipated.	
4.3 Indication of any immediate medical attention and special treatment needed		
	In case of inhalation of decomposition products in a fire, symptoms	
	may be delayed. The exposed person may need to be kept under	
	medical surveillance for 48 hours.	

5. SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None known.

5.2 Special hazards arising from the substance or mixture



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Contains gas under pressure; may explode if heated. Decomposes in a fire giving off toxic fumes: Oxides of nitrogen.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep containers cool by spraying with water if exposed to fire.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

	Evacuate area. Ensure adequate ventilation. Avoid breathing gas.	
	Wear suitable respiratory protection.	
6.2 Environmental precautions		
	Do not release large quantities into the surface water or into drains.	
6.3 Methods and material for containment and cleaning up		
	Stop leak if safe to do so. Allow small spillages to evaporate	
	provided there is adequate ventilation.	
6.4 Reference to other sections		

See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Avoid breathing gas. Wear suitable respiratory protection. Do not drag, roll, slide or drop cylinders. Use a suitable hand truck design for cylinder movement. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object into valve cap openings. Doing so may damage valve causing a leak to occur. Secure cylinders in an upright position at all times, close all valves when not in use. Keep



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closed even when empty. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

Incompatible materials

Storage life

Protect from sunlight. Store in a well-ventilated place. < 125°F (52°C). Stable under normal conditions. None.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
Occupational Exposure Limits	None assigned.
8.2 Exposure controls	
Appropriate engineering controls	Ensure adequate ventilation.
Personal protection equipment	
	Wear suitable eye/face protection.
Eye Protection	
	Wear suitable gloves.
Skin protection	
	Wear suitable respiratory protective equipment if exposure to high
	levels of material is likely.
Respiratory protection	
Thermal hazards	Not applicable.
9. SECTION 9: PHYSICAL AND	CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Gas.

Appearance



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	Color: Colorless.
Odor	Odorless.
Odor threshold	Not established.
рH	Not applicable.
Melting point/freezing point	-410°F (-210°C)
Initial boiling point and boiling	-384.4°F (-195.8°C)
range	
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or	Not applicable.
explosive limits	
Vapor pressure	Not available.
Vapor density	1.16 kg/m³ @ 70°F (21.1°C)
Density	1.25 g/l
Relative density	0.97 @ 70°F (21.1°C) (Air = 1)
Solubility(ies)	Solubility (Water): Slightly soluble (20 mg/l)
	Solubility (Other): Not available.
Partition coefficient:	Not available.
n-octanol/water	
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2 Other information	
Molecular weight	28.01 g/mol
10. SECTION 10: STABILITY AN	ID REACTIVITY
10.1 Reactivity	
-	Stable under normal conditions.
10.2 Chemical Stability	
-	Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid



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Keep away from heat and direct sunlight.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition product(s)

No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute toxicity - Ingestion	Low acute toxicity.	
Acute toxicity - Skin Contact	Low acute toxicity.	
Acute toxicity - Inhalation	Low acute toxicity.	
Skin corrosion/irritation	Contact with rapidly expanding gas may cause burns or frostbite.	
Serious eye damage/irritation	Contact with rapidly expanding gas may cause burns or frostbite.	
Skin sensitization data	Not classified.	
Respiratory sensitization data	Not classified.	
Germ cell mutagenicity	There is no evidence of mutagenic potential.	
Carcinogenicity	No evidence of carcinogenicity.	
Reproductive toxicity	Not classified.	
Lactation	Not classified.	
STOT - single exposure	None anticipated.	
STOT - repeated exposure	None anticipated.	
Aspiration hazard	Not classified.	
11.2 Other information		

None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.	
Toxicity - Fish	Low toxicity to fish.	
Toxicity - Algae	Low toxicity to algae.	
Toxicity - Sediment	Not classified.	
Compartment		
Toxicity - Terrestrial	Not classified.	
Compartment		
12.2 Persistence and Degradation		
	Nitrogen is an inert gas. No adverse ecological effects are	
	expected.	



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12.3 Bioaccumulative potential	
	Nitrogen is an inert gas. No adverse ecological effects are expected.
12.4 Mobility in soil	
	Not applicable.
12.5 Other adverse effects	
	None anticipated.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
	Containers must not be punctured or destroyed by burning, even
	when empty. Refer to manufacturer/supplier for information on
	recovery/recycling.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national
	legislation.

14. SECTION 14: TRANSPORT INFORMATION

1066
NITROGEN, COMPRESSED.
2.2
2.2
Not available
E1



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Passenger and Cargo Aircraft	75KG
Limited Quantities Packing	
Instructions	
Cargo Aircraft Limited Quantities	150kg
Special Provisions	A69
Emergency Response	2L
Guidebook (ERG) Code	
ADR Classification Code	1A
ADR HIN	20
ADR Transport Category	3
Tunnel Restriction Code	E
Emergency Action Code	2T
Advice on Additional Personal	Not applicable.
Protection (APP)	

14.4 Packing group			
Packing group	Not applicable.		
Labels	2.2		
	NON-FLAIMABLE GAS		
Special Provisions	653		
Limited Quantities	120 m		
Excepted Quantities	E1		
Mixed Packing Instructions for	P200		
Packages			
Special Packing Provisions for	Not applicable.		
Packages			
Mixed Packing Instructions for	MP9		
Packages			
14.5 Environmental hazards			
Environmental hazards	Not classified as a Marine Pollutant.		
14.6 Special precautions for user	r		
Special precautions for user	Not known.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Packing Instructions for Portable	(M)		



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Tanks	
Special Provisions for Portable	Not applicable.
Tanks	
Tank Code for Tanks	CxBN(M)
Special Provisions for Tanks	TA4 TT9
Vehicle for Tank Carriage	AT
Special Provisions for Carriage -	Not applicable.
Packages	
Special Provisions for Carriage -	Not applicable.
Bulk	
Special Provisions for Carriage -	CV9 CV10 CV36
Loading, Unloading and Handling	I
Special Provisions for Carriage -	Not applicable.
Operation	

15. SECTION 15: REGULATORY INFORMATION

15.1 Federal	
Toxic and hazardous substances	Not listed.
(29 CFR 1910; Subpart Z) National emission standards for	Not listed
hazardous air pollutants (40 CFR	
61.01)	
Title III Consolidated List of Lists	Not listed.
TSCA (Toxic Substance Control	Nitrogen (CAS No.: 7727-37-9)
Act)	
CAA 602 - Ozone Depleting	Not listed.
Substances (ODS)	
15.2 State	
State Right to Know Lists	Listed in: New Jersey, Pennsylvania, Rhode Island, Minnesota.
Proposition 65 (California)	Not listed.

15.3 Other



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OSPAR List of Chemicals for	Not listed.
Priority Action	
NTP (National Toxicology	Not listed.
Program)	
OSHA	Not listed.
(List of Highly Hazardous	
Chemicals, Toxics and	
Reactives)	
IARC (International Agency for	Not listed.
Research on Cancer)	

16. SECTION 16: OTHER INFORMATION

The following sections contain 1-16 revisions or new statements:

NFPA		HMIS	
Health	0	Health	0
Fire	0	Flammability	0
Instability	0	Physical hazards	0

LEGEND: Hazard Pictogram(s)



H280: Contains gas under pressure; may explode if heated. P410+P403: Protect from sunlight. Store in a well-ventilated place.

Additional Information required by Federal Standard 313 Rev. E:



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Contract or Solicitation	SPE4A6-16-D-0226
Number:	
Prime Contractor:	Hudson Technologies, Inc.
Prime Contractor CAGE:	7DSQ0
Manufacturer/Contractor CAGE:	7QH44
National Stock Number (NSN):	6830012679591

Specification Reference:

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