



## SAFETY DATA SHEETS

M-23452/E-1

DATE: 21May2015

SUPPLIER ADDRESS: 1290 COMBERMERE STREET

TROY, MI 48083

EMERGENCY PHONE NUMBER: (248) 589-2950

## 1. CHEMICAL PRODUCT

PRODUCT NAME: PROPANE IN NITROGEN

SYNONYMS: None

#### 2. COMPOSITION, INFORMATION ON INGREDIENTS

Exposure Limits (PPM)

				ACGIH	OSHA		Other
Ingredient Name	Formula	CAS#	Concentration	TLV	PEL	MAC	STEL
PROPANE	С3Н8	74-98-6	.101-5 PCT	2500	1000	NE	NE
NITROGEN	N2	7727-37-9	BALANCE	S/A	S/A	S/A	S/A
Note: NE = NONE	e: NE = NONE ESTABLISHED						
S/A = SIMPLE	S/A = SIMPLE ASPHYXIANT						

# 3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW High pressure gas.

Can cause rapid suffocation.

POTENTIAL HEALTH EFFECTS ROUTES OF ENTRY: Inhalation

ACUTE EFFECTS: Mixture can act as a simple asphyxiant by displacing air necessary for life. Symptoms include rapid respiration, muscular incoordination, fatigue, dizziness, nausea, vomiting, unconsciousness, and death. Propane acts as a anesthetic. Symptoms include dizziness, drowsiness, unconsciousness, and death.

CHRONIC EFFECTS: None known

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None known OTHER EFFECTS OF OVEREXPOSURE: None

CARCINOGENICITY (US Only):

IARC MONOGRAPHS - No OSHA REGULATED - No

# 4. FIRST AID MEASURES

INHALATION: Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. EYE CONTACT: None SKIN CONTACT: None

INGESTION: None

IN EVENT OF EXPOSURE, CONSULT A PHYSICIA

NOTE TO PHYSICIAN: None

FLASH POINT: Nonflammable

# 5. FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE: N/Ap FLAMMABLE LIMITS: Nonflammable LOWER: UPPER: EXTINGUISHING MEDIA: Use what is appropriate for surrounding fire. SPECIAL FIRE FIGHTING INSTRUCTION AND EQUIPMENT: Wear self-contained breathing apparatus and full protective clothing. Keep fire exposed cylinders cool with water spray. If possible, stop the product flow. HAZARDOUS COMBUSTION PRODUCTS: Toxic carbon monoxide may be given off during

combustion. UNUSUAL FIRE AND EXPLOSION HAZARDS:

Cylinder rupture may occur under fire conditions. Compressed air at high pressure will accelerate the combustion of flammable materials.

# 6. ACCIDENTAL RELEASE MEASURES

CLEAN UP PROCEDURES: Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoor area. Shut off source if possible and remove source of heat.

SPECIALIZED EQUIPMENT: None

## 7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.
PRECAUTIONS TO BE TAKEN IN STORAGE:
Store in well ventilated areas. Keep
valve protection cap on cylinders when
not in use.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate general and local exhaust ventilation to maintain concentrations below exposure limits and to avoid asphyxiation.

PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses
SKIN PROTECTION: None
RESPIRATORY PROTECTION: In case of
leakage, use self-contained breathing
apparatus.

OTHER PROTECTIVE EQUIPMENT: Safety shoes
when handling cylinders.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless
ODOR: Pungent
PHYSICAL STATE: Gas
VAPOR PRESSURE: N/Ap
VAPOR DENSITY (AIR=1): 0.968-0.996
BOILING POINT (C): N/Ap
SOLUBILITY IN WATER: cm3/100cm3 H20
1.485
SPECIFIC GRAVITY (H20=1): Gas
EVAPORATION RATE: Gas
ODOR THRESHOLD: N/Av

## 10. STABILITY AND REACTIVITY

STABLLITY: Stable under normal storage conditions.
CONDITIONS TO AVOID: Storage in poorly
ventilated areas. Storage near a heat
source.
MATERIALS TO AVOID: Combustibles.
Nitrogen reacts with Li, Nd, and Ti at
high temperatures.
HAZARDOUS POLYMERIZATION: Will not
occur.
HAZARDOUS DECOMPOSITION: None

# 11. TOXICOLOGICAL INFORMATION

LETHAL CONCENTRATION (LC50): None established LETHAL DOSE 50 (LD50): N/Ap TERATOGENICITY: N/Ap REPRODUCTIVE EFFECTS: N/Ap MUTAGENICITY: N/Ap

## 12. ECOLOGICAL INFORMATION

No adverse ecological effects are expected.

# 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are the refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.

# 14. TRANSPORT INFORMATION

CONCENTRATION: 0.101-5.0%

DOT DESCRIPTION (US ONLY):
PROPER SHIPPING NAME: Compressed gases,
n.o.s.

HAZARD CLASS: 2.2 (nonflammable)
IDENTIFICATION NUMBER: UN1956
REPORTABLE QUANTITIES: None
LABELING: NONFLAMMABLE GAS
ADR/RID (EU Only): Class 2, lA
SPECIAL PRECAUTIONS: Cylinders should be
transported in a secure upright position
in a well ventilated truck.

## 15. REGULATORY INFORMATION

OSHA: Process Safety Management: Minor component is not listed in appendix A of 29 CFR 1910.119 as a highly hazardous chemical. TSCA: Mixture is not listed in TSCA inventory.

SARA: The threshold planning quantity

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for this mixture is 10,000 lbs.

EU NUMBER: N/Ap

NUMBER IN ANNEX 1 OF DIR 67/548: Mixture

is not listed in annex 1.

EU CLASSIFICATION: N/Av

R: 20

S: 9
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# 16. OTHER INFORMATION

OTHER PRECAUTIONS: Protect containers from physical damage. Do not deface cylinders or labels. Cylinders should be refilled by qualified producers of compressed gas. Shipment of a compressed gas cylinder which has not been filled by the owner or with his written consent is a violation of federal law (49 CFR). ABBREVIATIONS:

N/Ap - Not Applicable
N/Av - Not Available
SA - Simple Asphyxiant
NE - None Established
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