



SAFETY DATA SHEETS

M-21951/E-2

DATE: 21May2015

SUPPLIER ADDRESS: 1290 COMBERMERE STREET

TROY, MI 48083

EMERGENCY PHONE NUMBER: (248) 589-2950

1. CHEMICAL PRODUCT

PRODUCT NAME: ETHYLENE IN NITROGEN

SYNONYMS: None

2. COMPOSITION, INFORMATION ON INGREDIENTS

Exposure Limits (PPM)

					ACGIH	OSHA		Other
Ingredient Nam	ne	Formula	CAS#	Concentration	TLV	PEL	MAC	STEL
ETHYLENE		C2H4	74-85-1	.001-6 PCT	200	NE	NE	NE
NITROGEN		N2	7727-37-9	BALANCE	S/A	S/A	S/A	S/A
Note: NE	= NONE	= NONE ESTABLISHED						
S/A	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 acts as a simple asphyxiant by displacing air necessary
for life. Inhalation of high concentrations may result in moderate anesthesia,
diminished mental alertness, loss of consciousness, and central nervous (CNS)
depression. Symptoms include rapid respiration, muscular incoordination,
fatigue, dizziness, nausea, vomiting, unconsciousness, and death.
CHRONIC EFFECTS: None known

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

CARCINOGENICITY (US Only):

NTP - No
IARC MONOGRAPHS - No
OSHA REGULATED - No

4. FIRST AID MEASURES

INHALATION: Immediately remove victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

EYE CONTACT: None
SKIN CONTACT: None
INGESTION: None
IN EVENT OF EXPOSURE, CONSULT A PHYSICIA
NOTE TO PHYSICIAN: None

5. FIRE FIGHTING MEASURES

FLASH POINT: Nonflammable
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: None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Cylinder rupture may occur under fire
conditions.

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 avoid asphyxiation.

PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses
SKIN PROTECTION: None
RESPIRATORY PROTECTION: Use a
self-contained breathing apparatus in
case of emergency or non-routine use.
OTHER PROTECTIVE EQUIPMENT: Safety shoes
when handling cylinders.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless
ODOR: Sweet odor.
PHYSICAL STATE: Gas
VAPOR PRESSURE: N/Ap
VAPOR DENSITY (AIR=1): .9677
BOILING POINT (C): Gas
SOLUBILITY IN WATER: cm3/100cm3 H20
1.485
SPECIFIC GRAVITY (H20=1): Gas
EVAPORATION RATE: Gas
ODOR THRESHOLD: N/AV

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal storage conditions.
CONDITIONS TO AVOID: Storage in poorly
ventilated areas. Storage near a heat
source.
MATERIALS TO AVOID: Nitrogen reacts with
Li, Nd, and Ti at high temperatures.
Reacts violently with AlCl3, 03, CCl4,
benzoyl peroxide, bromotrichloromethane,
and nitromethane with AlCl3. Strong
oxidizers.
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: .001-6%

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: Materials are not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemicals.
TSCA: Materials are listed in TSCA inventory.
SARA: The threshold planning quantity for this mixture is 10,000 lbs.

EU NUMBER: N/Av NUMBER IN ANNEX 1 OF DIR 67/548: Minor component is listed in annex 1. EU CLASSIFICATION: N/Av R: As S: 9,23

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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