



Supplier Address: Plumsteadville, PA 18949-0310 Emergency Phone: 215-766-8861

MATERIAL SAFETY DATA SHEETS DATE: 03/01/98

acure Limits (PPM)

CHEMICAL PRODUCT 1.

PRODUCT NAME: ETHANOL IN NITROGEN

None SYNONYMS:

COMPOSITION, INFORMATION ON INGREDIENTS 2.

				CAS# 64-17-5 7727-37-9		Concentration	ACGIH	OSHA PEL	MAC	Other STEL
Ingredient Name ETHANOL NITROGEN	NE	~	Formula C2H60 N2 NONE ESTABLISHED		1-1000 PPM BALANCE	1000 S/A	1000 S/A	NE S/A	NE S/A	
Note:	S/A		SIMPLE ASPHYXIANI) ensississi	n an		,		

HAZARD IDENTIFICATION 3.

EMERGENCY OVERVIEW High pressure gas Can cause rapid suffocation

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Inhalation

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

CHRONIC EFFECTS: None known MEDICAL CONDITIONS AGGREVATED BY OVEREXPOSURE: None known

OTHER EFFECTS OF OVEREXPOSURE: None

CARCINOGENICITY (US Only)

NTP - No

IARC MONOGRAPHS - No OSHA REGULATED - No

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 THE EVENT OF EXPOSURE, CONSULT A PHYSICIAN NOTE TO PHYSICIANS: None

FIRE FIGHTING MEASURES 5.

FLASH POINT: Nonflammable AUTOINGNITION TEMPERATURE: N/Ap

FLAMMABLE LIMITS: Nonflammable EXTINGUISHING MEDIA: Use what is appropriate for surrounding fire.

SPECIAL FIRE FIGHTING INSTRUCTIONS AND EQUIPMENT. Wear self-contained breathing apparatus and full protective

HAZARDOUS COMBUSTION PRODUCTS: Toxic carbon monoxide may be given off during combustion UNUSUAL FIRE AND EXPLOSION HAZARDS: Cylinder rupture may occur under fire conditions.

ACCIDENTAL RELEASE MEASURES

CLEAN UP PROCEDURES: Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoor area. SPECILIZED 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: Incase of leakage, use selfcontained breathing apparatus. OTHER PROTECTIVE EQUIPMENT: Safety shoes when handling cylinders.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless ODOR: sweet odor. PHYSICAL PRESSURE: Gas VAPOR PRESSURE: N/Ap VAPOR DENSITY: (Air=1): 0.967 BOILING POINT: (C): N/Ap SOLUBILITY IN WATER: cm3/100cm3 H20 1.485 SPECIFIC GRAVITY (H20=1): Gas EVAPORATION RATE: Gas ODOR THRESHOLD: N/Ap

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. 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 CONSIDERATION

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.

14. TRANPORT INFORMATION

CONCENTRATION: 1-1000 ppm DOT DESCRIPTION (US Only)

PROPER SHIPPING NAME: compressed gases, n.o.s.

HAZARD CLASS: 2.2 (nonfiammable) IDENTIFICATION NUMBER: UN 1956 REPORTABLE QUANTITIES: None LABELING: NONFLAMMABLE GAS ADR/RID (EU Only): Class 2, 1A

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: Mixture is not listed in TSCA inventory. SARA: The threshold planning quantity 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

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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