



# Kem Medical Products

## SAFETY DATA SHEET

Reviewed 8/15/16

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

PRODUCT NAME **Ethylene in Air 10-500ppm volume Ethylene**  
CAS: None Assigned  
PRODUCT USE Calibrates Kem Medical Products EO Gas Alarm Systems  
USED FOR CAT # 9010, 9011  
MANUFACTURER Kem Medical Products  
5305 NW 35<sup>th</sup> Terrace,  
Ft. Lauderdale, FL 33309  
EMERGENCY CONTACT CHEMTREC Assistance: (800) 424-9300

### SECTION 2: HAZARD(S) IDENTIFICATION

EYES (CATEGORY 1) Safety goggles or glasses, contact lenses are not recommended, 15 min shower/eyewash  
SKIN (CATEGORY 1) N/A  
INHALATION (CATEGORY 1) Use safety hood  
INGESTION (CATEGORY 2) N/A  
Do not use this product until SDS has been read and understood.



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPONENTS Ethylene in Air

### SECTION 4 FIRST-AID MEASURES

EYE AND/OR SKIN CONTACT In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. In case of skin contact wash affected skin area.  
INHALATION If irritating symptoms appear remove to fresh air.  
INGESTION: N/A

### SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT & METHOD N/A  
FLAMMABLE LIMITS N/A (Non-flammable gas)  
EXTINGUISHABLE MEDIA N/A (Non-flammable gas)  
FIRE AND EXPLOSION HAZARDS Contents under pressure

### SECTION 6 ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES Evacuate all personnel from the affected area. Use appropriate protective equipment. Shut off flow of gas, and purge lines with an inert gas. Switch off non-essential electrical equipment  
WASTE DISPOSAL Do not attempt to dispose of any unused quantities of product or their containers without contacting Kem Medical for instructions

### SECTION 7 HANDLING AND STORAGE

HANDLING Use only in well ventilated areas. The cylinder should be secured with a chain or strap. Do not drag, drop or roll the cylinder. Use both hands when carrying the cylinder. Do not heat the cylinder. One-way check valves in the use line are recommended to prevent backflow. Systems should be cleaned "for Oxygen service" before first use.  
STORAGE Use only in well ventilated areas. The cylinder should be secured with a chain or strap. Do not drag, drop or roll the cylinder. Use both hands when carrying the cylinder. Do not heat the cylinder. One-way check valves in the use line are recommended to prevent backflow. Systems should be cleaned "for Oxygen service" before first use.



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### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION	Glasses/Goggles
SKIN PROTECTION	Gloves
RESPIRATORY PROTECTION	N/A

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

FREEZING POINT	-318F
VAPOR PRESSURE	@ 70°F, above Critical Temperatures
SPECIFIC GRAVITY	1.0
SOLUBILITY	N/A
APPEARANCE/ODOR	Vapor is colorless and odorless
EVAPORATION RATE	N/A
MOLECULAR WEIGHT:	28.97
SPECIFIC GRAVITY:	1.0
LIQUID DENSITY AT BOILING POINT:	54.7 lb/ft <sup>3</sup> average
GAS DENSITY AT STP:	0.075 lb/ft <sup>3</sup> average

### SECTION 10 STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Chlorine
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION PRODUCTS:	None
CONDITIONS TO AVOID:	Cylinder temperatures should not exceed 130°F (54°C)

### SECTION 11 TOXICOLOGY INFORMATION

ROUTES OF ENTRY : Inhalation. Skin.

TOXICITY: The concentration of ethylene and the balance gas of air present in this mixture are both non-toxic]

CHRONIC EFFECTS ON HUMANS: Not available.

ACUTE POTENTIAL HEALTH EFFECTS: Skin: May cause mild skin irritation. No adverse effects expected.

EYES: May cause mild irritation with redness.

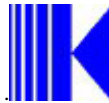
INHALATION: May cause respiratory tract irritation.

INGESTION: N/A.

### SECTION 12 ECOLOGICAL INFORMATION

### SECTION 13 DISPOSAL CONSIDERATION

Release in a hood, or in low traffic areas



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## SECTION 14 TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME	Compressed Gas N.O.S.
DOT HAZARD CLASS	1956
UN/NA NUMBER	2.2 (non-flammable gas)

## SECTION 15 REGULATORY INFORMATION

## SECTION 16 OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MEDIVATORS SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. UNLIMITED COPIES OF THIS DOCUMENT CAN BE MADE, BUT ARE FOR INTERNAL USE ONLY