

## SAFETY DATA SHEET

Reviewed 3/1/19

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

PRODUCT NAME	<b>Ethylene in Air 10-500ppm volume Ethylene</b>
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
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### 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.

**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

**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