

## SAFETY DATA SHEET

Reviewed 2/26/18

### 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<br>5305 NW 35 <sup>th</sup> Terrace,<br>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. |

**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**

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