
HEALTH HAZARDS

HEALTH HAZARDS - Methane is a simple asphyxiant (ACGIH 1995-96). Carbon monoxide TCLO (Human) is reportedly 650 ppm/45 minutes; LC_{LO} (human) 5000 ppm/5 minutes. Hydrogen sulfide LC_{LO} is 800 ppm/5 minutes. No effects known below 10 ppm.

SIGNS AND SYMPTOMS OF EXPOSURE - None known for 2.5% methane. Exposure to 500-1000 ppm CO may cause headache, rapid breathing, nausea, weakness, dizziness and confusion. H₂S is an irritant of the eyes and respiratory tract.

PRIMARY ROUTES OF ENTRY - Inhalation, eyes

TARGET ORGANS - CO: Lungs, Blood, Tissues. CO at toxic concentrations causes tissue hypoxia (lack of oxygen) by preventing blood from transporting sufficient oxygen. H₂S is an irritant of the eyes and respiratory tract.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE - Carbon monoxide burden may aggravate angina pectoris. Pregnant women are reportedly more sensitive than others. Effects of CO exposure are aggravated by heavy labor, heat stress and high altitude.

EXPOSURE LIMITS - Carbon Monoxide 25 ppm (ACGIH 1995-96). TWA H₂S is 10 ppm, STEL 15 ppm. OSHA CO TWA 35 ppm.

CARCINOGENICITY DATA - Component gases are not listed by NIOSH RTECS, OSHA, NTP or IARC.

EMERGENCY AND FIRST AID PROCEDURES - Remove from exposure. Administer Oxygen. Consult Physician Immediately.

SAFE HANDLING AND USE

HYGIENIC PRACTICES - Avoid breathing gas.

PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT - N/A

PROCEDURES FOR SPILL OR LEAK CLEANUP - Ventilate area. Avoid breathing gas.

WASTE DISPOSAL - Do not puncture or incinerate cylinder. Before discarding cylinder, slowly release contents to a safe exhaust.

STORAGE - Store in a cool, dry, well-ventilated area. Do not exceed 120°F.

CONTROL MEASURES

PERSONAL PROTECTIVE EQUIPMENT - Due to the limited amount of gas in the cylinder, and the low release rate employed in instrument calibration, respiratory protection is not indicated under conditions of intended use.

ENGINEERING CONTROLS - Mechanical ventilation is suitable.

WORK PRACTICES - Avoid breathing gas. Use in well-ventilated areas. Follow the calibration procedure detailed in the MSA instruction manual provided with the instrument under calibration.

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WARNING: This is a hazardous chemical product. By following the directions and warnings provided with this product, the hazards associated with the use of this product can be greatly reduced but never entirely eliminated. Mine Safety Appliances Company makes no warranties, expressed or implied, with respect to this product and EXPRESSLY DISCLAIMS THE WARRANTY OF MERCHANTABILITY AND ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. Users assume all risks in handling, using or storing this product.