
HEALTH HAZARDS

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- Hydrogen Sulfide: LC_{LO} (human inhalation) 800 ppm/5 minutes. No effects known below 5 ppm H₂S.
- Nitrogen is an asphyxiant.

Note: this gas mixture contains 5 ppm hydrogen sulfide. Additionally, because this gas mixture contains less than 19.5% oxygen if this mixture is released in a small poorly ventilated area (confined space) an oxygen deficient environment may occur.

SIGNS AND SYMPTOMS OF EXPOSURE –

- Hydrogen sulfide is an irritant of the eyes and respiratory tract. Headache, dizziness, nausea and vomiting, difficulty breathing. [Note: Sense of smell becomes rapidly fatigued and cannot be relied upon to warn of the continuous presence of H₂S.]
- Oxygen deficient atmosphere: Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in the ears, dizziness, drowsiness, unconsciousness, nausea, vomiting and depression of all the senses. Under some circumstances of over-exposure, death may occur.

PRIMARY ROUTES OF ENTRY - Inhalation, skin and eyes

TARGET ORGANS – Hydrogen sulfide is an irritant of the eyes and respiratory tract.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE – Pre-existing respiratory conditions may be aggravated by over-exposure to this gas mixture. Over exposure to hydrogen sulfide may also aggravated eye disorders and skin problems.

EXPOSURE LIMITS - ACGIH 2010: Hydrogen sulfide TWA 1 ppm, STEL 5 ppm

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

EMERGENCY AND FIRST AID PROCEDURES - Remove From Exposure

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.