
HEALTH HAZARDS

HEALTH HAZARDS – Sulfur dioxide is not listed as a carcinogen per NTP, IARC, and OSHA. The irritant action of sulfur dioxide is caused by the formation of sulfurous or sulfuric acid when the gas dissolves in water.

SIGNS AND SYMPTOMS OF EXPOSURE - Inhalation causes bronchoconstriction caused by sulfur dioxide is concentration related. Exposure to the vapors is corrosive and irritating to the eye and the skin.

PRIMARY ROUTES OF ENTRY – Inhalation, dermal and eyes

TARGET ORGANS - lungs, upper respiratory tract, skin, and eyes.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

Exposure may aggravate any pre-existing eye, skin, or respiratory disorder. Smokers and persons with pre-existing respiratory (i.e. asthma), nasal and cardiovascular disease may be more susceptible to effects of sulfur dioxide.

EXPOSURE LIMITS – (ACGIH 2011): STEL 0.25 ppm, OSHA PEL 5ppm.

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

EMERGENCY AND FIRST AID PROCEDURES - The contents of P/N 808978 Calibration Check Gas (58 liters of 10 ppm Sulfur dioxide in air or approximately 1.1 milligram sulfur dioxide) is insufficient to sustain a volume above the STEL if accidentally released to ambient air. Contents of one cylinder diluted by 1 cubic meter of ambient air would yield 0.1 ppm Sulfur dioxide. It would require the simultaneous release of three P/N 808978 calibration cylinders to produce a concentration of 0.3 ppm in a cubic meter of air. If an overexposure somehow occurs remove affected person(s) from exposure if breathing has stopped give artificial respiration if breathing is difficult give oxygen. Get immediate medical attention in all cases.

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.

WASTE DISPOSAL- Do not puncture/incinerate cylinder. Before discarding cylinder, slowly release contents to a safe exhaust. Dispose of cylinder in accordance with local, state and federal regulations

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.