

50004-x



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER Hydrogen Sulfide Calibration Gas Ampoule		PRODUCT IDENTIFICATION NUMBER (PIN) 50004-x, 50008-x	
PRODUCT USE Calibration Gas			
MANUFACTURER'S NAME General Monitors		SUPPLIER'S NAME General Monitors	
STREET ADDRESS 26776 Simpatica Circle		STREET ADDRESS 26776 Simpatica Circle	
CITY Lake Forest	PROVINCE California	CITY Lake Forest	PROVINCE California
POSTAL CODE 92630	EMERGENCY TELEPHONE NO. 949/581-4464	POSTAL CODE 92630	EMERGENCY TELEPHONE NO. 949/581-4464

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)	LC ₅₀ OF INGREDIENT (SPECIFY SPECIES)
Hydrogen Sulfide	<0.5%	7783-06-4		

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE Gas		ODOR AND APPEARANCE Rotten eggs - clear		ODOR THRESHOLD (ppm) <1 ppm	
VAPOR PRESSURE (mmHg)	VAPOR DENSITY (AIR-1) 1.250	EVAPORATION RATE	BOILING POINT (C) -195.8°C	FREEZING POINT (C) -210°C	
pH slightly acetic		SPECIFIC GRAVITY 0.97		COEFF. WATER/OIL, DIST.	

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS?		
MEANS OF EXTINCTION		
FLASHPOINT (C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)
AUTOIGNITION TEMPERATURE (C)	HAZARDOUS COMBUSTION PRODUCTS	
EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS?	
INCOMPABILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> IF SO, WHICH ONES? Concentrated Nitric acid, Chlorine, Nitrogen Trifluoride, Oxygen difluoride or other strong oxidizing agents	
REACTIVITY, AND UNDER WHAT CONDITIONS Contact and heat	
HAZARDOUS DECOMPOSITION PRODUCTS Oxides of sulfur	

PRODUCT IDENTIFIER
Hydrogen Sulfide Calibration Gas Ampoule

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY
SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT
No effect with levels present in ampoules given ampoule volume

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT
Low levels for extended periods cause irritation of mucous membranes, conjunctivae of the eyes, headaches

EXPOSURE LIMITS TWA 10 molar ppm	IRRITANCY OF PRODUCT None	SENSITIZATION TO PRODUCT None	CARCINOGENICITY None
TERATOGENICITY None	REPRODUCTIVE TOXICITY None	MUTAGENICITY None	SYNERGESTIC PRODUCTS None

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT
Use ampoules in well ventilated areas

GLOVES (SPECIFY) No	RESPIRATOR (SPECIFY) No	EYE (SPECIFY) No
FOOTWEAR (SPECIFY) No	CLOTHING (SPECIFY) No	OTHER (SPECIFY) None

ENGINEERING CONTROLS (SPECIFY, e.g. VENTILATION, ENCLOSED PROCESS)
None

LEAK AND SPILL PROCEDURE
If a large quantity of ampoules break at once, ventilate area.

WASTE DISPOSAL
No special method - dispose of glass in trash.

HANDLING PROCEDURES AND EQUIPMENT
Ampoules are made of glass. Do not break in hands.

STORAGE REQUIREMENTS
Keep out of heat or direct sunlight - could shorten life of ampoule.

SPECIAL INFORMATION
Pack so ampoules are not crushed or broken.

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES

SECTION 9 - TRANSPORTATION INFORMATION

DESCRIPTION OF GOODS:
Based on the concentration of the H₂S and the fact that the ampoules are not under pressure they are not subject to Hazardous Materials Regulations. (49 CFR Parts 171-180)

PASSENGER AND CARGO AIRCRAFT:
Acceptable for shipment

SECTION 10 - PREPARATION DATE OF MSDS

PREPARED BY (GROUP, DEPARTMENT, ETC.) Safety Officer	PHONE NUMBER 949 / 581-4464	DATE 30 Aug 2010
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