

Technical Information
Material Safety Data Sheet

SDT-4LB_03E

SECTION 1		CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
MANUFACTURE'S NAME GASTEC CORPORATION	TELEPHONE NUMBER +81-467-79-3910	FACSIMILE NUMBER +81-467-79-3979	
ADDRESS 6431 Fukaya, Ayase-City, Kanagawa 252-1103, Japan			
REFERENCE NUMBER SDT-4LB_03E	DATE PREPARED September 19, 2005		
PRODUCT NAME	Gas Detector Tube Hydrogen Sulfide Tube No.4LB		
SECTION 2		COMPOSITION/INFORMATION ON INGREDIENTS	
Porous Silica Gel (1.1 g) impregnated with Barium Compound(<5%) and Mercury(II) Chloride (<0.01%) in a glass tube.			
SECTION 3		HAZARDOUS IDENTIFICATION	
Not applicable			
SECTION 4		FIRST AID MEASURES	
Eye contact:	Wash eyes immediately with plenty of water for at least 15 minutes and see a doctor.		
Skin contact:	Wash affected area immediately with soap and plenty of water.		
Inhalation:	Not applicable		
Ingestion:	Rinse mouth immediately and see a doctor.		
SECTION 5		FIRE FIGHTING MEASURES	
None			
SECTION 6		ACCIDENTAL RELEASE MEASURES	
Not applicable			
SECTION 7		HANDLING AND STORAGE	
When breaking off the tube ends, keep away from eyes. Broken glass tubes should not be picked up with bare hands. Tubes should be stored in a cool and dark place.			
SECTION 8		EXPOSURE PROTECTION	
Not applicable			
SECTION 9		PHYSICAL AND CHEMICAL PROPERTIES	
Mercury(II) Chloride/ Barium Compound:			
Flash point:	Not available		
Autoignition point:	Not available		

SECTION 10 STABILITY AND REACTIVITY

Mercury(II) Chloride:

Stability: Stable for heat and light.
Reactivity: Not available
Condition to avoid: Sunlight, Heat
Hazardous decomposition product: Mercury oxide or chloride may be formed.

Barium Compound:

Stability: Stable
Reactivity: Contact with organic agents may cause fire. React violently with water or acid to evolve heat and form hydrogen peroxide or Barium Oxide.
Condition to avoid: Sunlight, Heat, Pressure, Flames, High temperature, Friction, Sparks, Static charge,
Hazardous decomposition product: Oxides of Barium or Chloride Compounds may be formed.

SECTION 11 TOXICOLOGICAL INFORMATION

Mercury(II) Chloride:

Acute toxicity data: LCL0: (ihl, human): 300mg/m³/10 min.
LD50: (orl, rat): 1mg/kg
LDL0: (iv, dog): 2710 μ g/kg
LD50: (ip, mouse): 7165 μ g/kg
Irritation data: Skin; rabbit; 500mg/24h; severe
Eye; rabbit; 50mg/24h; severe
Mutagenicity: Chromosomal aberration test; hamster; wbc: 50 μ mol/L
DNA; damage; hamster; ovarian: 2500nmol/L
DNA; inhibition; mouse; wbc: 100nmol/L
dominant lethal gene test:: rat; orl: 250mg/kg
Carcinogen: Not available

Barium Perchlorate:

Acute toxicity data: Not available
Irritation data: Not available
Chronic toxicity / Long-term toxicity: Barium ion irritate to all muscles continuously may cause aberrant muscle contraction or cardiac arrest also cause vomiting, diarrhea and irritate to spinal chord.
Mutagenicity: Not available
Carcinogen: As soluble barium compound(ACGIH:4 Not Classifiable as a human Carcinogen)

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATION

This tube contains 0.04mg of inorganic mercury.
Dispose of in accordance with all applicable laws and regulations.
(Contact local environmental agency for specific rules.)

SECTION 14 TRANSPORT INFORMATION

Breakage of tubes caused by drops, high pressure or bends should be avoided.

SECTION 15 REGULATORY INFORMATION

Not applicable

SECTION 16

OTHER INFORMATION

No specific notes