

Technical Information
Material Safety Data Sheet

SDT-70_05E

SECTION 1		CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
MANUFACTURE'S NAME	TELEPHONE NUMBER	FACSIMILE NUMBER	
GASTEC CORPORATION	+81-467-79-3910	+81-467-79-3979	
ADDRESS			
8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan			
REFERENCE NUMBER		DATE PREPARED	
SDT-70_05E		January 20, 2010	
PRODUCT NAME	Gas Detector Tube Mercaptan Detector Tube No. 70		
SECTION 2		COMPOSITION/INFORMATION ON INGREDIENTS	
Porous Silica Gel (0.3 g) impregnated with Lead Acetate (<1%), Acetic Acid (<1%) and Sulfuric acid (<5%) 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	
Acetic Acid:			
Flash point:	43°C (tag sealing)		
Autoignition point:	427°C		
Sulfuric acid, Lead acetate:			
Flash point:	Not available		
Autoignition point:	Not available		

SECTION 10 STABILITY AND REACTIVITY

Acetic Acid:

Stability: Absorb moisture powerfully.
Reactivity: Bite into metals and concrete caused by oxidation.
Reacts with an alkaline to form a salt.
Condition to avoid: Sunlight, Heat, Open flames, High temperature,
Sparks, Static charge, Other ignition sources, Moisture
Hazardous decomposition product: Carbon Monoxide and/or Carbon Dioxide may be formed.

Sulfuric acid:

Stability: Stable. Absorb moisture powerfully from the air.
Reactivity: React violently with water to evolve heat and may spatter. Bite into metals and concrete caused by oxidation. Carbonize to flammable organic materials.
Condition to avoid: Sunlight, Heat, Moisture
Material to avoid: Organic materials, Reducing agents, Metals
Hazardous decomposition product: Sulfur oxides may be formed

Lead acetate:

Stability: Stable
Reactivity: Toxic lead oxide gas will be formed when heated hard.
Condition to avoid: Sunlight, Heat
Hazardous decomposition product: Carbon monoxide, Lead oxides

SECTION 11 TOXICOLOGICAL INFORMATION

Acetic Acid:

Acute toxicity data: LD50(ori,rat): 1780mg/kg(AMIHBC AMA 4, 119, 1951)
LD50(ihl,rat): 1000ppm/4H(34ZIAG -, 607, 1969)
LD50(skin,rabbit): 4mL/kg(UCDS** 8, 7, 1963)
LD50(ori,rat): 630mg/kg(CERI hazard 2001, DFGOT vol.13,1999)
Irritation data: Skin; rabbit; 540mg; Mild(UCDS** 8, 7, 1963)
rabbit; ; Severe(CERI hazard, 2001, SIDS, 1997)
Eye; rabbit; ; Severe(CERI hazrd, 2001, DFGOT vol 13,1999, SIDS, 1997)
Respiratory sensitization: Not available
Germ cell mutagenicity: Not available
Carcinogen: Not available

Sulfuric acid

Acute toxicity data: LD50 (ori, rat): 2140mg/kg
LC50 (ihl, cavy): 18mg/m³
Irritation data: Eye; rabbit; 1380µg; severe
Mutagenicity: Not available
Carcinogen: Not available

Lead acetate:

Acute toxicity data: LD50 (ori, rat): 4665mg/kg (RTECS)
LDLo (i pr, rat): 200mg/kg (RTECS)
LD50 (i pr, mouse): 174mg/kg (RTECS)

Irritation data: Not available
Chronic toxicity data: Pain of muscles and joints, motor paralysis, fatigue, tremor. Possibility to occur sterility, miscarriage, stillbirth.
Mutation data: Not available
Tumorigenic data: NTP: R (Human Carcinogen)
IARC: Group 3 (Unclassifiable as to carcinogenicity in humans)

SECTION 12	ECOLOGICAL INFORMATION
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Acetic Acid:
Ecotoxicity: LC50(daphnids): 55mg/L/24hr (SIDS, 2002)
Persistence and degradability: This material is not or bioaccumulatable.
Bio accumulation potential: Not available
Mobility in soil: Not available
Other adverse effects: WGK; 1

Sulfuric acid, Lead acetate: Not available

SECTION 13	DISPOSAL CONSIDERATION
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This tube contains 0.91mg of lead. Dispose of in accordance with all applicable laws and regulations. (Contact local environmental agency for specific rules.)

SECTION 14	TRANSPORT INFORMATION
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Breakage of tubes caused by drops, high pressure or bends should be avoided.

SECTION 15	REGULATORY INFORMATION
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Not applicable

SECTION 16	OTHER INFORMATION
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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

