

**Technical Information**  
**Material Safety Data Sheet**

SDT-71\_05E

<b>SECTION 1</b>		<b>CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>	
<b>MANUFACTURE'S NAME</b>	<b>TELEPHONE NUMBER</b>	<b>FACSIMILE NUMBER</b>	
GASTEC CORPORATION	+81-467-79-3910	+81-467-79-3979	
<b>ADDRESS</b>			
8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan			
<b>REFERENCE NUMBER</b>	<b>DATE PREPARED</b>		
SDT-71_05E	January 20, 2010		
<b>PRODUCT NAME</b>	Gas Detector Tube Methyl Mercaptan Detector Tube No. 71		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
		Porous Silica Gel (0.3 g) impregnated with Lead Acetate (<1%), Acetic Acid (<1%) and Sulfuric acid (<5%) in a glass tube.	
<b>SECTION 3</b>		<b>HAZARDOUS IDENTIFICATION</b>	
		Not applicable	
<b>SECTION 4</b>		<b>FIRST AID MEASURES</b>	
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.		
<b>SECTION 5</b>		<b>FIRE FIGHTING MEASURES</b>	
		None	
<b>SECTION 6</b>		<b>ACCIDENTAL RELEASE MEASURES</b>	
		Not applicable	
<b>SECTION 7</b>		<b>HANDLING AND STORAGE</b>	
		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.	
<b>SECTION 8</b>		<b>EXPOSURE PROTECTION</b>	
		Not applicable	
<b>SECTION 9</b>		<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
Acetic Acid:			
Flash point:	43°C (tag sealing)		
Autoignition point:	427°C		
Sulfuric acid, Lead acetate:			
Flash point:	Not available		
Autoignition point:	Not available		

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**SECTION 10 STABILITY AND REACTIVITY**

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**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

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**Acetic Acid:**

**Acute toxicity data:** LD50(ori, rat): 1780mg/kg(AMHBC 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 hazard, 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/m<sup>3</sup>  
**Irritation data:** Eye; rabbit; 1380 μg; severe  
**Mutagenicity:** Not available  
**Carcinogen:** Not available

**Lead acetate:**

**Acute toxicity data:** LD50 (ori, rat): 4665mg/kg (RTECS)  
LDLo (ipr, rat): 200mg/kg (RTECS)  
LD50 (ipr, 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)

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**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

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**SECTION 13** **DISPOSAL CONSIDERATION**

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This tube contains 2.73mg of lead. Dispose of in accordance with all applicable laws and regulations. (Contact local environmental agency for specific rules.)

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**SECTION 14** **TRANSPORT INFORMATION**

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

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**SECTION 15** **REGULATORY INFORMATION**

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Not applicable

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**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.

