

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

SDT-4H\_06E

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**SECTION 1**

**MANUFACTURE'S NAME**  
GASTEC CORPORATION

**TELEPHONE NUMBER**  
+81-467-79-3910

**FACSIMILE NUMBER**  
+81-467-79-3979

**ADDRESS**

8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan

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**REFERENCE NUMBER**  
SDT-4H\_06E

**DATE PREPARED**  
January 20, 2010

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**PRODUCT NAME**

Gas Detector Tube  
Hydrogen Sulfide Detector Tube No. 4H

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**SECTION 2**

**TYPICAL COMPOSITION**

Porous Silica Gel (0.3 g) impregnated with lead acetate (<5%) and acetic acid (<1%) are filled in glass tube.

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**SECTION 3**

**HAZARDOUS IDENTIFICATION**

Not applicable

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**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.

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**SECTION 5**

**FIRE FIGHTING MEASURES**

None considered necessary

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**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

Not applicable

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**SECTION 7**

**HANDLING AND STORAGE**

Keep eyes away from detector tubes when breaking off both ends.  
Broken glass tubes should not be picked up with bare hands.  
Tubes should be stored in a cool and dark place.

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**SECTION 8**

**EXPOSURE PROTECTION**

Not applicable

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**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

Acetic Acid:

Flash point: 43°C (tag sealing)

Explosion point: 427°C

Lead acetate:

Flash point: Not available

Explosion 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.

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(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

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

Lead acetate: Not available

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

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This tube includes 2.7 mg of lead.

Dispose of in accordance with all applicable laws and regulations.

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

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Breakage of tubes caused by drop, high pressure, bend 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.

