

Technical Information
Material Safety Data Sheet

SDT-72_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-72_05E	January 20, 2010

PRODUCT NAME	Gas Detector Tube Ethyl Mercaptan Detector Tube No. 72
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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(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/m³

Irritation data: Eye; rabbit; 1380 μ g; severe

Mutagenicity: Not available

Carcinogen: Not available

Lead acetate:

Acute toxicity data: LD50 (orl, 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)

SECTION 12 ECOLOGICAL INFORMATION

Acetic Acid:

Ecotoxicity: LC50(daphnids): 55mg/L/24hr (SIDS, 2002)

Persistence and degradability: This material is not or bioaccumulatable.

Bioaccumulation potential: Not available

Mobility in soil: Not available

Other adverse effects: WGK; 1

Sulfuric acid, Not available
Lead acetate:

SECTION 13 DISPOSAL CONSIDERATION

This tube contains 2.73mg of lead. 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

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.

