

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

SDT-5M\_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-5M_05E	April 16, 2009		
<b>PRODUCT NAME</b>	Gas Detector Tube Sulfur Dioxide Detector Tube No.5M		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
		Porous Silica Gel (0.2 g) impregnated with Polyhydric Alcohol (<5-10%) and Barium Compounds (<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>	
Polyhydric Alcohol:			
Flash point:	116°C (tag sealing)		
Autoignition point:	402°C		
Barium Compounds			
Flash point:	Not available		
Autoignition point:	Not available		

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**SECTION 10 STABILITY AND REACTIVITY**

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Polyhydric Alcohol:	
Stability:	Stable. Hygroscopic
Reactivity:	May cause explosion in contact with oxidant.
Condition to avoid:	Sunlight, Heat, Open flames, High temperature, Sparks, Static charge, Other ignition sources
Hazardous decomposition product:	Carbon monoxide may be formed.
Barium compounds:	
Stability:	Stable.
Reactivity:	Contact with acid or heat to form toxic hydrogen chloride. React with sulfate to form water-insoluble Barium Sulfate.
Condition to avoid:	Sunlight, Heat
Hazardous decomposition product:	Carbon monoxide, barium compounds or halides may be formed.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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Polyhydric Alcohol:	
Acute toxicity data:	TCL0: (ihl, human): 10000mg/m <sup>3</sup> ; watering eye, cough, breathing problem LD50: (orl, rat): 4700mg/kg LD50: (sc, rat): 2800mg/kg LD50: (skn, rabbit): 9530mg/kg
Irritation data:	Skin; rabbit; 555mg; open system; minor Eye; rabbit; 100mg/lh; minor
Mutagenicity:	DNA; inhibition; human; lymphocyte; 320mmol/L
Teratogenicity:	TDL0: (orl, mouse): 7500mg/kg; (6-15 D preg) embryotoxicity; abnormal musculoskeletal
Carcinogen:	OSHA: Not listed NTP: Not listed IARC: Not listed
Barium compounds	
Acute toxicity data:	LD50: (orl, rat): 118mg/kg (RTECS) LDLo: (iv, rat): 20mg/kg (RTECS) LD50: (orl, mouse): 150mg/kg (RTECS) LD50: (ip, mouse): 56.2mg/kg (RTECS) LD50: (iv, mouse): 21mg/kg (RTECS) LD50: (orl, rabbit): 236mg/kg (RTECS) LDLo: (skn, rabbit): 96mg/kg (RTECS) LDLo: (iv, rabbit): 12mg/kg (RTECS)
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:	Not available

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**SECTION 12 ECOLOGICAL INFORMATION**

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Not available

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**SECTION 13 DISPOSAL CONSIDERATION**

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This tube does not contain any hazardous materials.  
Dispose of in accordance with all applicable laws and regulations.  
(Contact local environmental agency for specific rules.)

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**SECTION 14**

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**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**

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**REGULATORY INFORMATION**

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Not applicable

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**SECTION 16**

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**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.