

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

SDT-111\_03E

<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>			
6431 Fukaya, Ayase-City, Kanagawa 252-1103, Japan			
<b>REFERENCE NUMBER</b>		<b>DATE PREPARED</b>	
SDT-111_03E		September 6, 2005	
<b>PRODUCT NAME</b>	Gas Detector Tube Methanol Tube No. 111		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
		Porous Silica Gel (0.7g) impregnated with Sulfuric Acid (5%), and Potassium Dichromate(<1%) 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>	
Sulfuric acid:			
Flash point:	Not available		
Autoignition point:	Not available		
<b>SECTION 10</b>		<b>STABILITY AND REACTIVITY</b>	
Sulfuric acid:			
Stability:	Stable. Absorb moisture powerfully from the air.		
Reactivity:	React violently with water to evolve heat and may		

Condition to avoid: spatter. Bite into metals and concrete caused by oxidation. Carbonize to flammable organic materials.  
Material to avoid: Sunlight, Heat, Moisture  
Hazardous decomposition product: Organic materials, Reducing agents, Metals  
Sulfur oxides may be formed

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

---

Sulfuric acid:

Acute toxicity data: LD50 (orl, rat): 2140mg/kg  
LC50 (ihl, cavy): 18mg/m<sup>3</sup>  
Irritation data: Eye; rabbit; 1380  $\mu$  g; severe  
Mutagenicity: Not available  
Carcinogen: Not available

---

**SECTION 12 ECOLOGICAL INFORMATION**

---

Not available

---

**SECTION 13 DISPOSAL CONSIDERATION**

---

This tube contains 1.77mg of Hexavalent Chromium.  
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**

---

No specific notes