

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

SDT-111LL\_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-111LL_05E		April 16, 2009	
<b>PRODUCT NAME</b>	Gas Detector Tube Methyl Alcohol Detector Tube No. 111LL		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Porous Silica Gel (0.7g) impregnated with Sulfuric Acid (<10%), Potassium Hydroxide (<1%), Sodium Hydroxide (<1%), phosphoric acid (<1%) and Chromic Anhydride (<0.1%) 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 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
<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
Sulfuric Acid:	
Acute toxicity data:	LD50 (orl, rat): 2140mg/kg LC50 (ihl, cavy): 18mg/m <sup>3</sup>
Irritation data:	Eye; rabbit; 1380µg; severe
Mutagenicity:	Not available
Carcinogen:	Not available
<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
	Not applicable
<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATION</b>
	This tube contains 0.12mg of hexavalent chromium. Dispose of in accordance with all applicable laws and regulations. (Contact local environmental agency for specific rules.)
<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
	Breakage of tubes caused by drops, high pressure or bends should be avoided.
<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
	Not applicable
<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
	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.