

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

SDT-163\_04E

<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-163_04E		April 16, 2009	
<b>PRODUCT NAME</b>	Gas Detector Tube Ethylene Oxide Detector Tube No.163		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Porous Silica Gel (0.8g) impregnated with Sulfuric Acid (<5%), and Potassium Dichromate(<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>	
Sulfuric acid/ Potassium Dichromate:			
Flash point:	Not available		
Autoignition point:	Not available		
<b>SECTION 10</b>		<b>STABILITY AND REACTIVITY</b>	
Potassium Dichromate:			
Stability:	The substance is a strong oxidant. A mixture of the substance and combustibles is easy to ignite.		

Reactivity: Not available  
Condition to avoid: Sunlight, Heat  
Hazardous decomposition product: chromium 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

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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Potassium Dichromate:  
Acute toxicity data: LD50 (orl, rat): 25mg/kg(RTECS)  
LD50 (ip, rat): 18mg/kg(RTECS)  
LD50 (orl, mouse): 190mg/kg(RTECS)  
LD50 (ip, mouse): 37mg/kg(RTECS)  
LDLo (sc, mouse): 100mg/kg(RTECS)  
Irritation data: Corrosiveness damages skin and membrane of nose, throat and bronchus.  
Sensitization: Japan Society for Occupational Health:  
Airway sensitizing substance Group 2 (Probably human sensitizing)  
Skin sensitizing substance Group 1 (Clearly human sensitizing)  
(Advice of occupational exposure limits)  
Mutagenicity: Not available  
Carcinogen: As Hexavalent chromium;  
NTP: K (Prospective human carcinogen)  
IARC: Group 1 (Human carcinogen)  
ACGIH: A1 (Known to be carcinogen)  
Japan Society for Occupational Health: Group 1 (Human carcinogen)

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Sulfuric acid:  
Acute toxicity data: LD50 (orl, rat): 2140mg/kg  
LC50 (ihl, cavy): 18mg/m<sup>3</sup>  
Irritation data: Eye; rabbit; 1380 μg; severe  
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 contains 1.55mg of Hexavalent Chromium.  
Dispose of in accordance with all applicable laws and regulations.  
(Contact local environmental agency for specific rules.)

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**SECTION 14 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 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

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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.

