

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

SDT-131\_04E

<b>SECTION 1</b>		<b>CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>	
<b>MANUFACTURE'S NAME</b> GASTEC CORPORATION	<b>TELEPHONE NUMBER</b> +81-467-79-3910	<b>FACSIMILE NUMBER</b> +81-467-79-3979	
<b>ADDRESS</b> 8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan			
<b>REFERENCE NUMBER</b> SDT-131_04E	<b>DATE PREPARED</b> September 14, 2005		
<b>PRODUCT NAME</b>	Gas Detector Tube Vinyl Chloride Tube No. 131		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Porous Silica Gel (0.9g) impregnated with Sulfuric Acid (5-10%), 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>	
Potassium Dichromate / Sulfuric acid:			
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

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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 3.53mg 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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No specific notes

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