

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

SDT-14R\_02E

<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-14R_02E		<b>DATE PREPARED</b> May 31, 2006	
<b>PRODUCT NAME</b>	Gas Detector Tube Hydrogen Chloride Tube No.14R		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
Porous Silica Gel (0.3 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		

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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.

<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
	Not available

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATION</b>
	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****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

