

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

SDT-4HH\_03E

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**SECTION 1**

**MANUFACTURE'S NAME**  
GASTEC CORPORATION

**TELEPHONE NUMBER**  
+81-467-79-3910

**FACSIMILE NUMBER**  
+81-467-79-3979

**ADDRESS**

6431 Fukaya, Ayase-City, Kanagawa 252-1103, Japan

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**REFERENCE NUMBER**  
SDT-4HH03E

**DATE PREPARED**  
September 8, 2004

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**PRODUCT NAME**

Gas Detector Tube  
Hydrogen Sulfide Detector Tube No. 4HH

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**SECTION 2**

**TYPICAL COMPOSITION**

Porous Silica Gel (0.3 g) impregnated with copper sulfate and 5 hydrates (10-15%) are filled in glass tube.

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**SECTION 3**

**HAZARDOUS IDENTIFICATION**

Not applicable

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**SECTION 4**

**FIRST AID MEASURES**

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.

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**SECTION 5**

**FIRE FIGHTING MEASURES**

None considered necessary

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**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

Not applicable

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**SECTION 7**

**HANDLING AND STORAGE**

Keep eyes away from detector tubes when breaking off both ends.  
Broken glass tubes should not be picked up with bare hands.  
Tubes should be stored in a cool and dark place.

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**SECTION 8**

**EXPOSURE PROTECTION**

Not applicable

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**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

Copper sulfate, 5 hydrates:  
Flash point: Not available  
Explosion point: Not available

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
	<p>Copper sulfate, 5 hydrates:</p> <p>Stability: Stable (Weathered gradually in the dry air)</p> <p>Reactivity: Not available</p> <p>Condition to avoid: Sunlight, Heat</p> <p>Hazardous decomposition product:: Copper Fume, Sulfurous acid gas, Sulfur oxides</p>
<b>SECTION 11</b>	<b>TOXICOLOGICAL INFORMATION</b>
	<p>Copper sulfate, 5 hydrates:</p> <p>Acute toxicity data: TDLo (orl, human): 272mg/kg LDLo (orl, human): 1088mg/kg (RTECS) LD50 (orl, rat): 300mg/kg LD50 (skn, rat): &gt;2mg/kg (RTECS) LD50 (ipr, rat): 18.7mg/kg LD50 (orl, mouse): 33mg/kg (RTECS)</p> <p>Irritation data: Not available</p> <p>Mutation data: Not available</p> <p>Tumorigenic data: Not available</p>
<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
	Not available
<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATION</b>
	<p>This tube does not include any hazardous materials.</p> <p>Dispose of in accordance with all applicable laws and regulations.</p>
<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
	Breakage of tubes caused by drop, high pressure, bend should be avoided.
<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
	Not applicable
<b>SECTION 16</b>	<b>OTHER INFORMATION</b>
	Not available