

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

SDT-174LL\_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-174LL_04E		September 15, 2005	
<b>PRODUCT NAME</b>	Gas Detector Tube 1,3-Butadiene Detector Tube No.174LL		
<b>SECTION 2</b>		<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
<b>Pretreatment Tube:</b> Porous Silica Gel (0.2g) impregnated with Potassium Hydroxide (<5%) and Sodium Hydroxide (<5%) in a glass tube.			
<b>Detector Tube:</b> Porous Silica Gel (0.7g) impregnated with Potassium Permanganate (<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 refrigerator.			
<b>SECTION 8</b>		<b>EXPOSURE PROTECTION</b>	
Not applicable			
<b>SECTION 9</b>		<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
Potassium Hydroxide, Sodium Hydroxide:			
Flash point:	Not available		
Autoignition point:	Not available		

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**SECTION 10** **STABILITY AND REACTIVITY**

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Potassium Hydroxide:	
Stability:	Soluble. Strong alkaline and absorb carbon dioxide in air.
Reactivity:	Aqueous solution corrode metals such as aluminum, Tin or zinc and emit hydrogen gas mix with air and may cause explosion.
Condition to avoid:	Moisture, Heat, Sunlight, Carbon dioxide
Hazardous decomposition product:	Not available
Sodium Hydroxide:	
Stability:	Stable. Soluble. Strong alkaline and absorb carbon dioxide in air.
Reactivity:	Reacts with Acids to create Sodium Chloride. Aqueous solution corrode metals such as aluminum, Tin or zinc and emit hydrogen gas mix with air and may cause explosion.
Condition to avoid:	Heat, Sunlight, Acids
Hazardous decomposition product:	Not available

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**SECTION 11** **TOXICOLOGICAL INFORMATION**

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Potassium Hydroxide:	
Acute toxicity data:	LD50: (orl, rat): 273mg/kg (RTECS)
Irritation data:	Eye; rabbit; 1mg/24H; Moderate (RTECS) Skin; rabbit; 50mg/24H; severe (RTECS)
Chronic toxicity/Long-term toxicity:	Repetition or long term skin contact may cause dermatitides.
Mutagenicity:	Chromosomal aberration test: rat; ascites tumor; 1800mg/kg
Carcinogen:	Not available
Sodium Hydroxide:	
Acute toxicity data:	LD50: (ip, mouse): 40mg/kg LD50: (orl, rabbit): 500mg/kg
Irritation data:	Eye; rabbit; 50µg/24H; severe Skin; rabbit; 500mg/24H; severe
Chronic toxicity/Long-term toxicity:	Repetition or long term skin contact may cause dermatitides.
Mutagenicity:	Chromosomal aberration test: locust; intravenous injection; 20mg
Carcinogen:	Not available

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**SECTION 12** **ECOLOGICAL INFORMATION**

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Potassium Hydroxide:	
Ecotoxicity/fish toxicity:	May have a harmful effect on aquatic organisms since strong alkaline.

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**SECTION 13** **DISPOSAL CONSIDERATION**

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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

