

Technical Information
Material Safety Data Sheet

SDT-121AHS_03E

SECTION 1		CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
MANUFACTURE'S NAME	TELEPHONE NUMBER	FACSIMILE NUMBER	
GASTEC CORPORATION	+81-467-79-3910	+81-467-79-3979	
ADDRESS			
8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan			
REFERENCE NUMBER	DATE PREPARED		
SDT-121AHS_03E	January 10, 2014		
PRODUCT NAME	Gas Detector Tube Benzene Detector Tube No.121AHS		
SECTION 2		COMPOSITION/INFORMATION ON INGREDIENTS	
		Porous Silica Gel (0.3 g) impregnated with Fuming Sulfuric Acid (10-15%), Sulfuric Acid (5-15%), Barium compound (<1%), and Chromic Anhydride (<1%) in a glass tube.	
SECTION 3		HAZARDOUS IDENTIFICATION	
		Not applicable	
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.		
SECTION 5		FIRE FIGHTING MEASURES	
		None	
SECTION 6		ACCIDENTAL RELEASE MEASURES	
		Not applicable	
SECTION 7		HANDLING AND STORAGE	
		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.	
SECTION 8		EXPOSURE PROTECTION	
		Not applicable	
SECTION 9		PHYSICAL AND CHEMICAL PROPERTIES	
Fuming sulfuric acid, Barium compound, Chromic Anhydride, Sulfuric acid:			
Flash point:	Not available		
Autoignition point:	Not available		

SECTION 10 STABILITY AND REACTIVITY

Fuming sulfuric acid:	
Stability:	White smoke poisonous gas (sulfur trioxide) is emitted in air.
Reactivity:	React violently with water to evolve heat. Diluted sulfuric acid reacts with metals such as iron to form flammable hydrogen gas may cause fire and explosion. May cause ignition in contact with organic materials.
Condition to avoid:	Sunlight, Heat, Moisture
Hazardous decomposition product:	Sulfur oxides 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

SECTION 11 TOXICOLOGICAL INFORMATION

Fuming sulfuric acid:	
Acute toxicity data:	LC50 (ihl, rat): 347ppm/1H (RTECS)
Irritation data:	as Sulfuric acid; Eye; rabbit; 250 μ g; severe (RTECS)
Mutagenicity:	Not available
Carcinogen:	IARC: Human carcinogen (Group 1) ACGIH: as Sulfuric acid; Suspected human carcinogen (A2)
Sulfuric acid	
Acute toxicity data:	LD50 (orl, rat): 2140mg/kg LC50 (ihl, cavy): 18mg/m ³
Irritation data:	Eye; rabbit; 1380 μ g; severe
Mutagenicity:	Not available
Carcinogen:	Not available
Chromic anhydride:	
Acute toxicity data:	LD50 (ip, rat): 58400 μ g/kg (RTECS) LD50 (iv, rat): 9260 μ g/kg (RTECS) LD50 (orl, mouse): 127mg/kg (RTECS) LD50 (ip, mouse): 14mg/kg (RTECS) LDLo (sc, mouse): 20mg/kg (RTECS) LD50 (iv, mouse): 17100 μ g/kg (RTECS)
Irritation data:	Not available
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)

SECTION 12 ECOLOGICAL INFORMATION

Fuming sulfuric acid, Sulfuric acid, Barium compound:	Not available
Chromic anhydride:	
Biodegradability:	Not available
Bioaccumulation Potential:	Concentration scale factor (BCF); 4.6-15 (concentration, 100 μ g/l); 14-21 (concentration, 20 μ g/l); 11-43 (concentration 5 μ g/l); 16-72 (concentration 94-242 μ g/l)

Aquatic toxicity: LC50 (killifish): 82mg/l/48H

SECTION 13

DISPOSAL CONSIDERATION

This tube contains 0.39 mg of hexavalent chromium.
Dispose of in accordance with all applicable laws and regulations.
(Contact local environmental agency for specific rules.)

SECTION 14

TRANSPORT INFORMATION

Breakage of tubes caused by drops, high pressure or bends should be avoided.

SECTION 15

REGULATORY INFORMATION

Not applicable

SECTION 16

OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of 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.