<u>Technical Information</u> <u>Material Safety Data Sheet</u>

SECTION 1	CHEMICAL PRODUCT AND	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
MANUFACTURE'S NAM GASTEC CORPORATION		FACSIMILE NUMBER +81-467-79-3979	
ADDRESS			
8-8-6 Fukayanaka, Ayase-City, Kanagawa 252-1195, Japan			
REFERENCE NUMBER	DATE PREPARED		
SDT-121AHC_04E	January 10, 2014		
PRODUCT NAME	Gas Detector Tube Benzene Detector Tube No.121AHC		
SECTION 2	COMPOSITION/INFORMATION ON	INGREDIENTS	
	Porous Silica Gel (0.6 g) impregnat -15%), Sulfuric Acid (5-10%), and Ch 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		
011	and see a doctor.	and the last of the control	
Skin contact: Inhalation:	Wash affected area immediately with Not applicable	soap and plenty of water.	
Ingestion:	Rinse mouth immediately and see a c	doctor.	
SECTION 5	FIRE FIGHTING MEASURES		
	None		
SECTION 6	ACCIDENTAL RELEASE MEASURE	ES .	
	Not applicable		
SECTION 7	HANDLING AND STORAGE		
	When breaking off the tube ends, kee	ep away from eyes.	
	Broken glass tubes should not be pic		
	Tubes should be stored in a cool and	dark place.	
SECTION 8	EXPOSURE PROTECTION		
	Not applicable		
SECTION 9	PHYSICAL AND CHEMICAL PROPE	ERTIES	
Fuming sulfuric acid, Chromic Anhydoride, Sulfuric acid:			
Flash point: Autoignition point:	Not available Not available		
Autoignition point.	NOT AVAIIADIE		

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.

Chromic anhydride:

Stability: Stable

Reactivity: Strong oxidizers. Contact with organic agents or metal

powder may cause expose by heat or shock. Contact

with organic agents may cause fire.

Condition to avoid: Sunlight, Heat Hazardous decomposition product: Not available

Sulfuric acid:

Stability: Stable. Absorb moisture powerfully from the air.

Reactivity: React violently with water to evolve heat and may spatter. Rite into metals and concrete caused by

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/m³

Irritation data: Eye; rabbit; 1380μ 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)

Fuming sulfuric acid, Sulfuric acid, Barium compound:

Not available

Chromic anhydride:

Biodegradability:

Bioaccumulation

Potential:

Not available

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 0.78 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.