

Technical Information
Material Safety Data Sheet

STD-11NOX_02E

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		
STD-11NOX_02E	January 10, 2014		
PRODUCT NAME	Gas Detector Tube Nitrogen Oxides Detector Tube No. 11NOX		
SECTION 2		COMPOSITION/INFORMATION ON INGREDIENTS	
		Porous Silica Gel (0.2 g) impregnated with Chromic Anhydride (<1%), Sulfuric Acid (<1%), and o-Tolidine (<0.01%) 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	
Chromic Anhydride :			
Flash point:	Not available		
Autoignition point:	Not available		

SECTION 10 STABILITY AND REACTIVITY

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

SECTION 11 TOXICOLOGICAL INFORMATION

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

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 2.73mg 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.