

## **SAFETY DATA SHEET**

Manufacturer		Company	GASTEC CORPORATION	
information		Address	8-8-6 Fukayanaka, Ayase-city, Kanagawa 252-1195, Japan	
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SDS ID SDS_192_03		Issue date	31/May/2022	
Product name	Methacrylonitrile Detector Tube No.192			
Hazards identification	This detector tube, when based on GHS and JIS Z 7252(2019), is corresponded to an article. Under normal use conditions, emits only a small amount of chemical substances, for example, trace amounts of chemical substances, and can be handled as not showing physical and chemical hazards or health hazards to operators. Therefore, this product does not fall under the GHS classification standard.			
Composition and information on ingredients	Pretreatment tube: A product made by impregnating porous silica gels(<10%) with sulfuric acid(<5%) and chromium(VI) oxide(<1%), and sealing them in glass tubes.  Detector tube: A product made by impregnating porous silica gels(<10%) with mercury(II) dichloride(<0.1%), and sealing them in glass tubes.			
First-aid measures	and see a docto Skin: If the filler plenty of water. Inhalation: Not a	r. comes into contact with	nediately flush with plenty of water for at least 15 minutes in the skin, immediately wash with soapy water and flush with the mouth immediately and see a doctor.	
Fire fighting measures	No special measures are needed.			
Accidental release measures	If the detector tube is broken, wear appropriate protective equipment to prevent the filler from adhering to or inhaling the skin or eyes.			
Handling and storage	Handling	detector tube is	of the detector tube are broken off to prevent injury, the moved away from the eye. Do not touch with bare hands as, or fillers in the event of breakage of the detector tube.	
	Storage	Store in a cold/	dark place	
Exposure control and protection measures	Not applicable.			
Physical and chemical properties	Appearance: A glass tube filled with reagents and sealed at both ends. Flash point: Not applicable. Ignition point: Not applicable.			
Stability and reactivity	Stability: Not applicable. Reactivity: Not applicable. Conditions to avoid: Direct sunlight, high temperature, freezing should be avoided. Hazardous decomposition products: Not applicable.			
Toxicological information	Filled material is made by adsorbing a small amount of chemicals to porous silica gels, and there is no hazard information for this. The following describes the hazards to humans of the chemicals and carries as a pure sobstance.			
	Porous silica gel: Acute toxicity:			

Mercury(II) dichloride:

Acute toxicity:

Oral - rat LD50:25.9 ~ 77.7 mg/kg

(Mercury(II) dichloride equivalent: 35.1~105 mg/kg)(ATSDR, 1999)

rat LD50 : 37mg/kg (JECFA1155,2011) Dermal—rat LD50 : 41mg/kg (RTECS, 2011)

Inhalation(dust,mist)—no data

Sulfuric acid:

Acute toxicity:

Oral - rat LD50: 2140mg/kg(SIDS, 2001)

Dermal—no data

Inhalation(dust,mist)—ratLC50(4-h exposure): 0.375mg/L(SIDS,2001)

Chromium(VI) oxide:

Acute toxicity:

Oral—rat LD50:52-113mg/kg (EU-RAR,2005)

Dermal—rabbit LD50:30mg Cr (VI) /kg (CrO3 equivalent:57.7 mg/kg)

(CICAD 78,2013/ATSDR, 2012)

Inhalation(dust,mist)—ratLC50(4-h exposure):0.217mg/L (EU-RAR,2005)

requested to understand that they need to take appropriate measures in accordance with the actual conditions of individual handling, etc. at their own responsibility, and then use them. This data sheet is prepared based on JIS Z 7253(2019). The contents of this report have been

Ecological information	No data		
Disposal considerations	This detector tube contains 0.59mg of inorganic mercury. Pretreatment tube contains 3.47mg of hexavalent chromium. Should be disposed properly in accordance with local regulations.		
Transport information	Avoid breakage of the detector tube due to dropping, pressurization, bending, etc. UN number: Not applicable UN Classification: Not applicable IATA: Not applicable Poisonous and Deleterious Substances Control Law: Not applicable Fire Defense Law: Not applicable Marine Regulation Information: Not applicable		
Japanese regulatory information	Industrial Safety and Health Law: Hazardous substance No.142, 165-2, 613(Article 57-2)  PRTR: 1-88 Hexavalent chromium		
Other information	References: Chemical Risk Information Platform (CHRIP): NITE Safety website in the workplace of the Ministry of Health, Labour and Welfare  This data sheet is provided to businesses that handle hazardous chemical products as reference information for ensuring safe handling. With reference to this, business operators are		

prepared based on the latest information as of the date of revision, but if new information is obtained, it may be added or corrected.

This data sheet is not a guarantee of safety.