

## **SAFETY DATA SHEET**

Manufacturer information			Company Address	GASTEC CORPORATION 8-8-6 Fukayanaka, Ayase-city, Kanagawa
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SDS ID	SDS_191L_03		Issue date	31/May/2022
Product name		Acrylonitrile Detector Tube No.191L		
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		Eyes: If the filler enters the eye, immediately flush with plenty of water for at least 15 minutes and see a doctor.  Skin: If the filler comes into contact with the skin, immediately wash with soapy water and flush with plenty of water.  Inhalation: Not applicable.  Ingestion: If the filler is swallowed, rinse 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	When the ends of the detector tube are broken off to prevent injury, the detector tube is moved away from the eye. Do not touch with bare hands any cuts, fittings, 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:		

> 5,110 mg/kg (ECETOC JACC,2006)(SIDS,2006) Dermal—rabbit LD50 :> 2,000 mg/kg, > 5,000 mg/kg (ECETOC JACC ,2006) (SIDS ,2006) Inhalation(dust,mist)—ratLC50(4-h exposure): >0.691 mg/L, > 2.22 mg/L, 0.09~0.84 mg/L, 1.65 mg/L (ECETOC JACC,2006) >2.08 mg/L (ECETOC JACC,2006)(SIDS,2006) 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) No data **Ecological** information Disposal considerations This detector tube contains 0.39mg 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 References: Other information 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 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 prepared based on the latest information as of the date of revision, but if new information is obtained, it may be added or corrected.

Oral—rat LD50:> 3,160 mg/kg (EPA pesticide ,1991),

> 3,300 mg/kg, > 2,000 mg/kg, > 5,000 mg/kg,

This data sheet is not a guarantee of safety.