

SAFETY DATA SHEET

Manufacturer information			Company Address	GASTEC CORPORATION 8-8-6 Fukayanaka, Ayase-city, Kanagawa
			T.11	252-1195, Japan
			Telephone FAX	+81-467-79-3910 +81-467-79-3979
			1111	01 107 19 3313
SDS ID	SDS_138_03		Issue date	31/May/2022
Product name		Methylene chloride Detector Tube No.138		
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(5-15%) with oleum($<$ 5%) and chromium (VI) oxide($<$ 1%), and sealing them in glass tubes. Detector tube: A product made by impregnating alminium oxide($<$ 5%) and porous silica gels($<$ 10%) with chromium(VI) oxide($<$ 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 alminium oxide and 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.		
		Alminium oxide: Acute toxicity:		

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Inhalation(vapor)—no data
                                            Inhalation(dust,mist)—no data
                                         Porous silica gel:
                                           Acute toxicity:
                                            Oral—rat LD50:> 3,160 mg/kg (EPA pesticide,1991),
                                                           > 3,300 \text{ mg/kg}, > 2,000 \text{ mg/kg}, > 5,000 \text{ mg/kg},
                                                       > 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 \text{ mg/L}, > 2.22 \text{ mg/L},
                                                              0.09~0.84 mg/L, 1.65 mg/L (ECETOC JACC,2006)
                                                             >2.08 mg/L (ECETOC JACC,2006)(SIDS,2006)
                                         Oleum:
                                           Acute toxicity:
                                            Oral-no data
                                             Dermal - no data
                                            Inhalation(dust,mist)—ratInhalationLC50:347ppm/1H
                                                                         (= 86.7 \text{ppm}/4\text{H} = 0.63 \text{ mg/L/4H})
                                                                             (assuming mist) (RTECS, 1995)
                                         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 0.91mg of hexavalent chromium. Pretreatment tube contains
                                         11.61mg 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, 189(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
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Oral—rat LD50:> 5,000 mg/kg (IUCLID,2000)

Dermal-no data

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.

This data sheet is not a guarantee of safety.