

SAFETY DATA SHEET

Manufacturer			Company	GASTEC CORPORATION
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SDS ID	SDS_103_03		Issue date	31/May/2022
Product name		Hydrocarbons(Lower class) Detector Tube No.103		
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 hazard to operators. Therefore, this product does not fall under the GHS classification standard.		
Composition and information on ingredients		Detector tube: A product made by impregnating porous silica gels(10-20%) with oleum(<5%) and chromium(VI) oxide(<1%), and sealing them in glass tubes. Scrubber tube: A product made by impregnating porous silica gels(<10%) with reagent(<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 1	measures	No special meas	sures 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 any cuts, fitting	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.
Exposure control and protection measures		Storage Store in a cold/dark place 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:

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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}/4\text{H})
                                                                             (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 12.22mg of hexavalent chromium. Scrubber tube does not contain
                                         any hazardous components. 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(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
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Acute toxicity:

obtained, it may be added or corrected.

This data sheet is not a guarantee of safety.