

SAFETY DATA SHEET

Manufacturer			Company	GASTEC CORPORATION	
information			Address	8-8-6 Fukayanaka, Ayase-city, Kanagawa 252-1195, Japan	
			Telephone	+81-467-79-3910	
			FAX	+81-467-79-3979	
SDS ID	SDS_1LKC_03		Issue date	31/May/2022	
Product name		Carbon monoxide Detector Tube No.1LKC			
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 alminium oxide(<10%) and porous silica gels(<10%) with potassiumu dichromate(<1%), and sealing them in glass tubes. Detector tube : A product made by impregnating porous silica gels(5-15%) with oleum(<10%), selenium dioxide(<0.1%) and chromium(VI) oxide(<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 s	torage	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 gs, or fillers in the event of breakage of the detector tube.	
		Storage	Store in a cold	dark place	
Exposure com protection me		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.			

Inneners regulatory information	
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
Disposal considerations	Pretreatment tube contains 4.42mg of hexavalent chromium. Detector tube contains 0.51mg of selenium and 2.60mg of hexavalent chromium. Should be disposed properly in accordance with local regulations.
Ecological information	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) Potassium dichromate: Acute toxicity: Oral - rat LD50:17 mg/kg (female), 26 mg/kg (male) (ATSDR,2012) 48 mg/kg (female), 74 mg/kg (male) (EU-RAR,2005) 149 mg/kg (female), 177 mg/kg (male) (EU-RAR,2005) 0 029 mg/L (female), 0.035 mg/L (male) (ATSDR,2012)
	Definit no data Inhalation(dust,mist)—no data Oleum: Acute toxicity: Oral—no data Dermal—no data Inhalation(dust,mist)—ratInhalationLC50:347ppm/1H (= 86.7ppm/4H = 0.63 mg/L/4H) (assuming mist)(RTECS,1995)
	Selenium dioxide: Acute toxicity: Oral—rat LD50:48 mg Se/kg(SeO2 equivalent:67.5 mg/kg) (ATSDR,2003) Dermal—no data
	Alminium oxide: Acute toxicity: Oral—rat LD50:> 5,000 mg/kg (IUCLID,2000) Dermal—no data Inhalation(vapor)—no data Inhalation(dust,mist)—no data

PRTR: 1-88 Hexavalent chromium

Other i	nformation

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 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.