

SAFETY DATA SHEET

Manufacturer		Company	GASTEC CORPORATION	
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SDS ID SDS_1M_03		Issue date	31/May/2022	
Product name	Carbon monoxide Detector Tube No.1M			
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	A product made by impregnating porous silica gels(5-15%) with oleum(5-10%), selenium dioxide($<$ 1%) and chromium(VI) oxide($<$ 1%), and sealing them in glass tubes.			
First-aid measures	and see a doctor. Skin: If the filler coplenty of water. Inhalation: Not app	omes into contact wi	mediately flush with plenty of water for at least 15 minutes the the skin, immediately wash with soapy water and flush with see 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 colo	l/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	there is no hazard	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.		
	Selenium dioxide: Acute toxicity: Oral—rat LD50:48 mg Se/kg(SeO2 equivalent:67.5 mg/kg) (ATSDR,2003) Dermal—no data			

Inhalation(dust,mist)—no data

Oral-no data Dermal - no data Inhalation(dust,mist) — ratInhalationLC50: 347ppm/1H (= 86.7 ppm/4H = 0.63 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) **Ecological information** No data Disposal considerations This detector tube contains 2.60mg of hexavalent chromium and 5.69mg of selenium. 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, 333(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. This data sheet is not a guarantee of safety.

Oleum:

Acute toxicity: