SAFETY DATA SHEET

Manufacturer information	Company	GASTEC CORPORATION
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Product name	Ethylene oxide Detector Tube No.163
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 alminium oxide(5-15%) and porous silica gels(<10%) with potassiumu dichromate(＜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: Oral－rat LD50:> 5,000 mg/kg (IUCLID,2000) Dermal－no data Inhalation(vapor)－no data

Inhalation(dust,mist)－no data

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) (EHC 61,1988)
Dermal－rabbit LD50：403 mg/kg (male)(ATSDR,2012),
1,150mg/kg (EU-RAR (2005))
Inhalation(dust, mist)－ratLC50(4-h exposure)：0.099mg/L (EU-RAR,2005),
0.029 mg/L (female),0.035 mg/L (male) (ATSDR,2012)

Ecological information	No data
Disposal considerations	This detector tube contains 3.09mg 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, 189(Article 57-2) PRTR：1-88 Hexavalent chromium
Other information	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.