



# SAFETY DATA SHEET

Manufacturer information	Company	GASTEC CORPORATION
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SDS ID            SDS\_31B\_03            Issue date            31/May/2022

Product name            Oxygen Detector Tube No.31B

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 aluminium oxide(10-20%) and porous silica gels(<10%) with titanium trichloride(5-10%) and copper sulfate pentahydrate(<5%), 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 aluminium 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 substance.

Aluminium oxide:  
Acute toxicity:  
Oral—rat LD50:> 5,000 mg/kg (IUCLID,2000)  
Dermal—no data

Inhalation(vapor)—no data  
Inhalation(dust,mist)—no data

Titanium trichloride:

Acute toxicity:

Oral—rat LD50:4300mg/kg(JPN-MOE(2010))

Dermal—rat no data available

Inhalation(dust,mist)—no data

Copper sulfate pentahydrate:

Acute toxicity:

Oral—rat LD50:960mg/kg (EHC200,1998)

Dermal—rat LD50 : >2000mg/kg (RTECS, 2006)

Inhalation(dust,mist)—no data

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Ecological information	No data
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Disposal considerations	This detector tube does not contain any hazardous components. Should be disposed properly in accordance with local regulations.
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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
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Japanese regulatory information	Industrial Safety and Health Law : Hazardous substance No.189, 379(Article 57-2)  PRTR : 1-272 Copper salt
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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.
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