

# MATERIAL SAFETY DATA SHEET

## 1. Identification of the product and of the company

Identification of the product Catalogue No.:

281S

Product name:

KITAGAWA GAS DETECTOR TUBE OXYGEN-CARBON DIOXIDE 281S

### Manufacture/supplier identification

Company:

KOMYO RIKAGAKU KOGYO K.K.

1-8-28 SHIMONOGE. TAKATSU-KU. KAWASAKI-CITY. KANAGAWA 213-0006. JAPAN

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## 2. Chemical identification of ingredients

OXYGEN Detector tube:

Inert porous carrier material impregnated with Pyrogallol, Potassium hydroxide and Mercury iodide sealed in a glass tube.

CAS NUMBER	INGREDIENTS	mg/Tube	%	SYMBOLS
87-66-1	Pyrogallol	80	5	C <sub>6</sub> H <sub>3</sub> (OH) <sub>3</sub>
1310-58-3	Potassium hydroxide	300	14	KOH
7774-29-0	Mercury iodide	4	0.2	HgI <sub>2</sub>

CARBON DIOXIDE Detector tube:

Inert porous carrier material impregnated with Potassium hydroxide and pH indicator sealed in a glass tube.

CAS NUMBER	INGREDIENTS	mg/Tube	%	SYMBOLS
1310-58-3	Potassium hydroxide pH indicator	84 <0.1	7 <0.1	KOH

Hazardous information of ingredients

Exposure Limit

Short-term:

N/A- As impregnated on silica gel.

Long-term:

N/A- As impregnated on silica gel.

In our experience, there is no release of these chemicals from the glass tube in normal use.

## 3. Hazards identification

Hazards identification:

Glass hazard

## 4. First aid measures (in the case of contact with the contents of a broken tube.)

Skin contact:

Wash affected area with copious amount of water.

Eye contact:

Wash eyes immediately with copious amount of water or normal saline solution  
Ensure lift eyelids and rinse for at least 15 min. Seek medical attention.

Ingestion:

Seek medical attention immediately.

5. Fire fighting measures

Flash point:	Non-combustible
Extinguishing media:	All known extinguishants can be used.
Special fire fighting Procedures:	None
Unusual fire & Explosion hazards:	Negligible fire hazard when exposed to heat or flame.

6. Accidental release measures

Personal protection:	Do not pick up broken glass with bare hands if the tube is broken. Cover with inert absorbent such as vermiculite. Sweep up and contain for waste disposal.
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7. Handling and storage

Handling & use:	Ensure the instructions for use are followed. Safety glasses and gloves should be worn to prevent injury from splintering glass.
Storage:	Keep away from direct sunlight and store at 25 degree C or lower.

8. Exposure control/personal protection

Respiratory protection:	Not applicable
Ventilation:	Not applicable
Other protective equipment:	Safety glasses and gloves

9. Physical/Chemical properties

Appearance:	OXYGEN Detector tube: White and red solid layers sealed in a glass tube.
	CARBON DIOXIDE Detector tube: Pink and white solid layers sealed in a glass tube.
Boiling point:	Not applicable
Melting point:	Not applicable
Specific gravity (H <sub>2</sub> O=1):	Not applicable
Evaporation rate (BuOAc=1):	Not applicable
Solubility in water:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not applicable

## 10. Stability and Reactivity

Stability: Stable at under ambient temperatures and pressures.

Incompatibilities: Not applicable

Hazardous decomposition products: None

Hazardous polymerization: None

## 11. Toxicological information

General: In our experience this products is not harmful to health when correctly used/handled.

Skin contact: Contents may be irritating to the skin if the tube broken.

Eye contact: Contents may be irritating to the eyes if the tube broken.

Ingestion: Glass hazard

## 12. Ecological information

General: Do not allow to enter drinking water supplies.

## 13. Disposal considerations

General: Ensure the tubes are open at both end. Submerge in Water. Neutralize water if necessary and dispose of as aqueous waste. The glass tubes can then be disposed of as inert "sharps".

## 14. Transport information

General: This product does not pose significant risk to health, safety or property.

## 15. Regulatory information

General: Not classified hazardous under CHIP2 Regulations as this product consists of a sealed glass tube containing a small amount of chemicals impregnated onto Silica sand.

## 16. Other information

Details given in this document are believed to be correct at the time of going to press. While proper care has been taken in the preparation of this document, but we cannot guarantee its accuracy or completeness, therefore we disclaim any liability for injury or damage when the product is used for other purposes than it is intended.