

MATERIAL SAFETY DATA SHEET

1. Identification of the product and of the company

Identification of the product Catalogue No.:

116

Product name:

KITAGAWA GAS DETECTOR TUBE CHLORINE DIOXIDE 116

Manufacture/Supplier Identification

Company:

KOMYO RIKAGAKU KOGYO K.K.

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

TEL 011-81-44-833-8911

FAX 011-81-44-833-2672

Distributor Identification

Company:

KITAGAWA AMERICA, LLC

200 WANAQUE AVENUE, SUITE 204, POMPTON LAKES, NEW JERSEY 07442, USA

TEL 973-616-5410

TEL 973-865-3407

FAX 973-616-5420

2. Chemical identification of ingredients

Detector tube:

Inert porous carrier material impregnated with *o*-Tolidine and EDTA sealed in a glass tube.

| CAS NUMBER | INGREDIENTS | mg/Tube | % | SYMBOLS |
|------------|--------------------|---------|------|---|
| 119-93-7 | <i>o</i> -Tolidine | <0.1 | <0.1 | (C ₆ H ₃ NH ₂ CH ₃) ₂ |
| 60-00-4 | EDTA | <0.1 | <0.1 | {-CH ₂ N(CH ₂ COOH) ₂ } ₂ |

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.

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: White solid layer sealed in a glass tube.
- Boiling point: Not applicable
- Melting point: Not applicable
- Specific gravity (H₂O=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.