

## GHS Safety Data Sheet

SDS No. : TBH01XAEG

Date Issued: 2017/05/24

### Section 1. Identification of the substance or mixture and of the supplier

#### 1.1 Product Information

**Product name:** TbF<sub>3</sub> ; **Terbium(III) fluoride**

Product number	Purity	Form	Size (mm) or Shape
TBH04XB	3N(99.9%)	solid	—

#### 1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.  
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 Phone: +81-49-284-1511 Fax: +81-49-284-1351  
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### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
<b>Skin corrosion/ irritation: Category 2</b> <b>Serious eye damage/eye irritation : Category 2</b> <b>Specific target organ toxicity, single exposure: Category 3</b>	No data available	<b>Flammable solids : Not classified</b> <b>Pyrophoric solids : Not classified</b> <b>Self heating substances and mixtures : Not classified</b> <b>Substances and mixtures which, in contact with water, emit flammable gases : Not classified</b>

GHS Label: W



Pictograms or symbols:

Warning word: **WARNING**

Hazard information	Description of precaution
<b>Causes skin irritation</b> <b>Causes serious eye irritation.</b> <b>May cause respiratory irritation</b>	Wear protective gloves/protective clothing/eye protection /respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. <b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>IF ON SKIN;</b> Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Call a <b>POISON CENTER</b> or doctor/physician if you feel unwell. Protect from sunlight. Store in a cool, dry and well ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container in accordance with local/national regulations.

**Additional hazard information :** With respect to additional hazard information, see Section 11.

### Section 3. Composition / information on ingredients

Chemical or common name:	Terbium(III) fluoride
Chemical formula:	TbF <sub>3</sub>
Single Substance or Mixture:	Single substance
Composition:	100%
CAS #:	13708-63-9
RTECS#:	WY9367500
TSCA inventory :	listed
EINECS:	2372470

### Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

### Section 5. Fire fighting measures

Extinguishing media:	The product is nonflammable. Use media appropriate for surrounding fire.
Fire fighting	Self-contained breathing apparatus and full protective clothing should be used, if this product is involved in fire. In case of fire, the product may liberate irritating gases/ fume.

### Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

### Section 7. Handling and storage

#### Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.
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**Precautions to be taken in storage:**

General precautions: Store the material in a sealed container.  
Store in a cool, dry, well ventilated and dark place away from incompatible materials.

**Section 8. Exposure controls / personal protection**

Exposure guideline:

Chemical Name	ACGIH(2013)/TLV-TWA (mg/m <sup>3</sup> )	OSHA(2006)PEL-TWA (mg/m <sup>3</sup> )
Fluorides (as F)	2.5	2.5

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots.

**Section 9. Physical and chemical properties**

Color and Form: White solid  
 Chemical formula: TbF<sub>3</sub>  
 Formula weight: 215.9  
 Melting point: 1172 °C  
 Ignition point: 2280 °C  
 Density: No data available  
 Water solubility: Water: Insoluble  
 Flammable: Nonflammable  
 Oxidation: None

**Section10. Stability and reactivity**

Stability: Stable in closed container at room temperature.

Reactivity

Incompatibility: No data available

**Section11. Toxicological information**

Acute toxicity: GHS : No data available  
 Skin corrosive / irritation: GHS : Category 2 ; Causes skin irritation  
 Serious eye damage / irritation: GHS : Category 2 ; Causes serious eye irritation  
 Respiratory/ skin sensitization: GHS : No data available  
 Germ cell mutagenicity: GHS : No data available  
 Carcinogenicity: GHS : No data available  
 Reproductive toxicity: GHS : No data available  
 Specific target organ toxicity  
 —single exposure: GHS : Category 3 ; May cause respiratory irritation

Specific target organ toxicity

—repeated exposure: GHS : No data available

## Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

—acute toxicity: GHS ; No data available

—chronic toxicity: GHS ; No data available

Hazardous to the ozone layer

GHS ; No data available

No Freon or Halon

Fish toxicity:

No data available

Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

## Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

## Section 14. Transport information

UN classification: Not hazardous

UN number: None

HS code: 2846.90

Marine pollution: None

Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

## Section 15. Regulatory information

TSCA inventory :listed

Please refer to any other local / national measures that may be relevant.

## Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.