

## GHS Safety Data Sheet

SDS No. : BIF01PAEG

Date Issued: 2014/01/20

Last updated: 2019/02/15

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

#### Product Information

Product name: Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> Bismuth titanate

Product number:	Purity	Form	Size (mm) or Shape
BIF15PB	99.9 %(3N)	powder	—
BI006_BIFT3041	99.9 %(3N)	target	φ 101.6×t5
BI006_BIFT3123	99.9 %(3N)	target	φ 152.4×t5

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.  
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### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
No data available	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:

Pictograms or symbols: Not applicable

**Warning word:** Not applicable

Hazard information	Description of precaution
Not applicable	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid release to the environment and collect spillage. Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.

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

### Section 3. Composition / information on ingredients

Chemical or common name: Bismuth titanate  
 Chemical formula: Bi<sub>4</sub>(TiO<sub>4</sub>)<sub>3</sub>  
 Single Substance or Compound: Single substance  
 Composition: 100%  
 CAS #: 12010-77-4  
 RTECS#: Not listed  
 TSCA inventory : listed  
 EINECS: 2345646

**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:	Use media appropriate for surrounding fire.
Fire fighting:	This material is not combustible. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

**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 DOT-approved waste 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. Avoid prolonged or repeated exposure.
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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.
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**Section 8. Exposure controls / personal protection**

Exposure guideline:	ACGIH(2013) : No data available OSHA(2006) : No data available
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, protective gloves.

**Section 9. Physical and chemical properties**

Appearance:	White solid
Chemical formula:	Bi <sub>4</sub> (TiO <sub>4</sub> ) <sub>3</sub>
Formula weight:	1171.5
Density:	7.85 g/cm <sup>3</sup>
Solubility in water:	Insoluble
Flammable:	Non-combustible substance
Oxidation:	None

**Section 10. Stability and reactivity**

Stability:	Stable when stored in sealed container.
Reactivity	
Incompatibility:	No data available.

**Section 11. Toxicological information**

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : No data available
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 : No data available
– repeated exposure:	GHS : No data available
Aspiration hazard:	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.
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**Section 14. Transport information**

UN classification:	Non-hazards
UN number:	None
HS code:	2841.90

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.