

GHS Material Safety Data Sheet

MSDS No. : TIO02PAEG

Date Issued: 2013/09/20

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

1.1 Product Information

Product name: TiO ; Titanium(II) oxide

Product number	Purity	Form	Size (mm) or Shape
TIO01PB	3N(99.9%)	powder	$\leq 150 \mu\text{m}$
TIO15PB	2N(99%)up	fine powder	$\leq 45 \mu\text{m}$
TIO01GB	3N(99.9%)	grains	—
—	—	rod/tablet	Various sizes
—	—	target	Various shapes, Various sizes

1.2 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	No data available

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 breathing dust. Do not eat, drink or smoke when using this product, and Wash hands thoroughly after handling.

Additional hazard information :

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name: Titanium(II) oxide

Chemical formula: TiO

Single Substance or Mixture: Single substance

Composition: 100%

CAS #: 12137-20-1

RTECS#: not registered
TSCA inventory : listed
EINECS: 2352365

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.

Section5. Fire fighting measures

Extinguishing media: This product cannot catch fire. 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.

Explosion hazards: Dust explosion; No data available.

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.

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:	ACGIH(2008)TLV :No data available OSHA(2006)PEL :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, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form:	dark yellowish solid
Chemical formula:	TiO
Formula weight:	63.9
Melting point:	1750 °C
Boiling point:	>3000 °C
Density:	4.95 g/cm ³
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 ; 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
Specific target organ toxicity	
—repeated exposure:	GHS ; No data available

Other cautions: Mechanical stimulation by dust affects eyes, skin and respiratory system.

Section12. 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

Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Section13. 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: 2823.00

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.