GHS Safety Data Sheet

SDS No.: TLO01PAEG Date Issued: 2019/04/02

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

Product Information

Product name: Tl₂O₃ Thallium(Ⅲ) oxide

Product	Purity	Form	Size or Shape
TLO02PB	99.9%(3N)	Powder	_

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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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

This GHS classification utilized "CLP classification" results as reference.

CLP classification; The classification and categorization adopted in CLP(Regulation on Classification,

Labelling and Packaging of Substances and Mixtures, Regulation(EC)1272/2008)

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity(Oral): Category 2 Acute toxicity(Inhalation): Category 2 Specific target organ toxicity, repeated exposure: Category 2	Hazardous to the aquatic environment, chronic toxicity :Category 2	Flammable solids: Not classified Pyrophoric solids: Not classified Self-heating substances and mixtures: Not classified Substances and mixtures which, in contact with water, emit flammable gases: Not classified

GHS Label: T, C, V







Pictograms or symbols:

Warning word: DANGER				
Hazard information	Description of precaution			
Fatal if swallowed Fatal if inhaled May cause damage to organs through prolonged or repeated exposure Toxic to aquatic life with long lasting effects	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Use only outdoors or in well-ventilated area. Avoid release to the environment and collect spillage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER 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.			



Section 3. Composition / information on ingredients

Chemical or common name: Thallium(Ⅲ) oxide, Dithallium trioxide

Synonyms: Thallic oxide

Chemical formula: Tl₂O₃

Single Substance or Compound: Single substance

 Composition:
 100%

 CAS #:
 1314-32-5

 RTECS#:
 XG2975000

 TSCA inventory:
 Listed

 EINECS:
 2152293

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: The product is not combustible.

In case of fire, the product may liberate toxic fume or gases.

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 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.

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(2013): Thallium compounds(as Tl); 0.02 mg/m³(inhalable particles)

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: Dark brown~black solid.

Chemical formula: Tl_2O_3 Formula weight: 456.8Melting point: 717 °C Boiling point: 875 °C(-2O) Solubility in water: Insoluble

Flammable: Non-combustible substance

Oxidation: None

Section 10. Stability and reactivity

Stability: Stable in closed container under room temperature..

Reactvity

Condition to avoid: Heat

Incompatibility: Acids, sulfur, antimony trisulfide, dry hydrogen sulfide.

Section 11. Toxicological information

Acute toxicity(Oral): GHS: Category 2; Fatal if swallowed

 $Rat \quad LD_{50} = 44 \text{ mg/kg (RTECS)}$

Acute toxicity(Inhalation): GHS: Category 2; Fatal if inhaled

Skin corrosive / irritation:

Serious eye damage / irritation:

Respiratory sensitization:

Skin sensitization:

GHS: No data available

Specific target organ toxicity

-single exposure: GHS: No data available

-repeated exposure: GHS: Category 2; May causes damage to organs through

Prolonged or repeated exposure

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: Category 2; Toxic to aquatic life with long lasting effects

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 number: 1707

IATA shipping name: Thallium compound, n.o.s.

IATA classification: Hazardous Class 6.1 (Toxic substances)

IATA packing group: II

HS code: 2825.90

Marine pollution: Marine pollutant specified in IMDG Code

"Environmentally hazardous substances (aquatic environment)"

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.

