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### Section 3. Composition / information on ingredients

Chemical or common name:	Thallium(III) oxide, Dithallium trioxide
Synonyms:	Thallic oxide
Chemical formula:	Tl <sub>2</sub> O <sub>3</sub>
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	1314-32-5
RTECS#:	XG2975000
TSCA inventory :	Listed
EINECS:	2152293

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### 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.

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### 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

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### 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.

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### 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) : Thallium compounds(as Tl) ; 0.02 mg/m <sup>3</sup> (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.

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## Section 9. Physical and chemical properties

Appearance:	Dark brown~black solid.
Chemical formula:	Tl <sub>2</sub> O <sub>3</sub>
Formula weight:	456.8
Melting point:	717 °C
Boiling point:	875 °C(-20)
Solubility in water:	Insoluble
Flammable:	Non-combustible substance
Oxidation:	None

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## Section10. Stability and reactivity

Stability:	Stable in closed container under room temperature..
Reactivity	
Condition to avoid:	Heat
Incompatibility:	Acids, sulfur, antimony trisulfide, dry hydrogen sulfide.

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## Section11. Toxicological information

Acute toxicity(Oral):	GHS : Category 2 ; Fatal if swallowed Rat LD <sub>50</sub> = 44 mg/kg (RTECS)
Acute toxicity(Inhalation):	GHS : Category 2 ; Fatal if inhaled
Skin corrosive / irritation:	GHS : No data available
Serious eye damage / irritation:	GHS : No data available
Respiratory sensitization:	GHS : No data available
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 : Category 2 ; May causes damage to organs through Prolonged or repeated exposure
Aspiration hazard:	GHS : No data available

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## Section12. 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

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### 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 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)"

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### Section 15. Regulatory information

TSCA inventory: Listed.

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

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### 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.

