



SAFETY DATA SHEET

Date of issue: 04/05/01

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 30402

ID No.: 3040200

Product name: **Thallium(I) malonate GPR (thallous malonate)**

Manufacturer/supplier identification

Company: VWR International Ltd., Merck House, Poole, Dorset, BH15 1TD, England
Telephone : + 44 (0) 1202 669700 Telefax : + 44 (0) 1202 665599

Emergency telephone No.: + 44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Inorganic salt

Product name: Thallium(I) malonate

CAS number: 2757-18-8

EC-No.: 231-138-1

Molecular formula: $\text{CH}_2(\text{COOTl})_2$

3. Hazards identification

Very toxic by inhalation and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Special risks:

May evolve toxic fumes in fire.

Suitable extinguishing media:

To suit environment.

6. Accidental release measures

Wear appropriate protective clothing.

Mix with sand, transfer carefully to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Under no circumstances eat, drink or smoke while handling this material. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

OES - Thallium, soluble compounds (as T1):

Long term: 0.1 mg/m³ (Sk)

Personal protective equipment:

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

- Respirator: Dust respirator
- Ventilation: Extraction hood
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Form:	crystal
Colour:	white
Odour:	odourless

Health, safety and environmental information:

Melting temperature	n/a
Boiling temperature	n/a
Solubility in water	Very soluble
Flash point	Not applicable
Explosion limits: lower:	Not applicable
Auto-ignition temperature	Not applicable

10. Stability and reactivity

Stable.

No data

11. Toxicological information

- After inhalation: Highly toxic.
- After eye contact: May irritate.
- After skin contact: May be harmful.
- After ingestion: Highly toxic. Danger of cumulative effects.

Further data

LD50 19 mg/kg oral, rat.

The following applies to thallium compounds in general: latency period until onset of effect; constipation, peripheral nervous disorders (neuralgias, formication) with severe pain; tremor, spasms; sleeplessness, thirst, fever; CNS disorders/damage with psychic alterations; impaired speech and vision - grey cataract; rise in blood pressure, cyanosis, respiratory paralysis; changes in the blood picture. If the victim survives intoxication, lasting damage may remain.

12. Ecological information

The following applies to thallium compounds in general: biological effects: fish: LD50: 0.03 ppm TI; *I. macrochirus* 96 h LC50: 132 ppm as TI; *Menidia beryllina* 96 h LC50: 24 ppm as T1.

Do not allow to enter drinking water supplies, waste water, or soil!

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

UN-No.: 1707

Class: 6.1

Packaging group: II

Proper shipping name: THALLIUM COMPOUND,N.O.S.

15. Regulatory information

Labelling according to EC directives

Symbol(s): T+ N Very toxic. Dangerous for the environment.

R-phrases: R26/28-33-51/53

Very toxic by inhalation and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: S2-13-28-45-61

Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. After contact with skin, wash immediately with plenty of In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions/Safety data sheets.

EC-No.: 231-138-1

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

Classified as a Schedule 1 poison under UK Poisons Rules

16. Other information

Revision.

Supersedes issue of 18/08/94

Changes in Section : 3,11,12,15

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