

Revision Date 19-Apr-2012

Revision Number 5

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

**Product Description:**

**Thallous malonate**

**Cat No.**

**420790000; 420791000**

**Synonyms**

Propanedioic Acid, Dithallium Salt; Formomalenic Thallium; Thallium Malonate.

**Relevant identified uses of the substance or mixture and uses advised against**

**Recommended Use**

Laboratory chemicals

**Uses advised against**

No Information available

**Details of the supplier of the safety data sheet**

**Company**

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address**

begel.sdsdesk@thermofisher.com

**Emergency Telephone Number**

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

## SECTION 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Acute oral toxicity	Category 2
Acute Inhalation Toxicity - Dusts and Mists	Category 2
Specific target organ systemic toxicity (repeated exposure)	Category 2
Chronic aquatic toxicity	Category 2

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16*

**Symbol(s)**

T+ - Very toxic

N - Dangerous for the environment

**R-phrases**

R33 - Danger of cumulative effects

**Risk Combination Phrases**

R26/28 - Very toxic by inhalation and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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**SECTION 2. HAZARDS IDENTIFICATION**

Label Elements



**Signal Word**

**Danger**

**Hazard Statements**

- H300 - Fatal if swallowed
- H411 - Toxic to aquatic life with long lasting effects
- H373 - May cause damage to organs through prolonged or repeated exposure
- H330 - Fatal if inhaled

**Precautionary Statements - EU (§28, 1272/2008)**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
- P310 - Immediately call a POISON CENTER or doctor/ physician
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P273 - Avoid release to the environment

**Other Hazards**

No information available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Thallos malonate 2757-18-8	EEC No. 220-414-7	98	2757-18-8	T+; R26/28 R33 N; R51-53	Acute Tox. 2 (H300) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	-

**For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16**

**SECTION 4. FIRST AID MEASURES**

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**SECTION 4. FIRST AID MEASURES****Description of first aid measures****Eye Contact**

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention. Take off contaminated clothing and shoes immediately.

**Ingestion**

Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.

**Inhalation**

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

**Notes to Physician**

Treat symptomatically

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**

No information available.

**Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

**Environmental precautions**

Prevent further leakage or spillage if safe to do so

**Methods and material for containment and cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**SECTION 7. HANDLING AND STORAGE**

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**SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

Avoid contact with skin and eyes. Avoid contact with clothing. Remove and wash contaminated clothing before re-use. Avoid breathing vapors or mists. Do not ingest. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

**Specific End Uses**

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure limits**

**Component**

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European Union	The United Kingdom	France	Belgium	Spain
	STEL: 0.3 mg/m <sup>3</sup> 15 min TWA: 0.1 mg/m <sup>3</sup> 8 hr Skin			Skin VLA-ED: 0.1 mg/m <sup>3</sup> 8 horas

**Component**

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Italy	Germany	Portugal	The Netherlands	Finland
		TWA: 0.1 mg/m <sup>3</sup> 8 horas Skin		

**Component**

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Austria	Denmark	Switzerland	Poland	Norway
STEL: 1 mg/m <sup>3</sup> 15 Minuten TWA: 0.1 mg/m <sup>3</sup> 8 Stunden		Skin MAK: 0.1 mg/m <sup>3</sup> 8 Stunden		TWA: 0.1 mg/m <sup>3</sup> 8 timer Skin

**Component**

Thallos malonate

Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
		Skin		

**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**Exposure controls**

**Engineering Measures**

Ventilation systems

**Personal protective equipment**

**Eye Protection**

Goggles

**Hand Protection**

Protective gloves

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

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**Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Physical State**

Solid

**Appearance**

White

**pH**

No information available.

**Boiling Point/Range**

No information available.

**Melting Point/Range**

No information available.

**Flash Point**

No information available.

**Autoignition Temperature**

No information available.

**Molecular Formula**

C<sub>3</sub> H<sub>2</sub> O<sub>4</sub> Ti<sub>2</sub>

**Molecular Weight**

510.8

**SECTION 10. STABILITY AND REACTIVITY****Reactivity****Chemical Stability**

Stable under normal conditions

**Possibility of Hazardous Reactions****Hazardous Polymerization**

No information available.

**Hazardous Reactions .**

No information available.

**Conditions to Avoid**

Incompatible products.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects**

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**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity

**Product Information** No acute toxicity information is available for this product

**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Thallos malonate	18.8 mg/kg ( Rat )	57.7 mg/kg ( Rat )	

Chronic Toxicity

**Carcinogenicity** There are no known carcinogenic chemicals in this product

**Sensitization** No information available.  
**Mutagenic Effects** No information available  
**Reproductive Effects** No information available.  
**Developmental Effects** No information available.  
**Target Organs** No information available.  
**Endocrine Disruptor Information** None known

**SECTION 12. ECOLOGICAL INFORMATION**

Toxicity

**Ecotoxicity effects** Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

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**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Waste from Residues / Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken to local recyclers for disposal

**SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO

**UN-No** 1707  
**Hazard Class** 6.1  
**Packing Group** II  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.

ADR

**UN-No** 1707  
**Hazard Class** 6.1  
**Packing Group** II  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.

IATA

**UN-No** 1707  
**Hazard Class** 6.1  
**Packing Group** II  
**Proper Shipping Name** THALLIUM COMPOUND, N.O.S.

**SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Thallos malonate	220-414-7	-		X	-	X	-	X	-	X	-

Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

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**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

**Chemical Safety Assessment****SECTION 16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R33 - Danger of cumulative effects

R26/28 - Very toxic by inhalation and if swallowed

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Revision Date** 19-Apr-2012

**Revision Summary**

**Reason for revision** Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet