

Revision Date 30-Apr-2012

Revision Number 2

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

Product Identifier

Product Description: Thallium(I) sulfate

Cat No. 196940000; 196940100; 196940500

Synonyms Dithallium Sulfate.

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 Pharmaceuticalaan 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
Skin Corrosion/irritation	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 R28 - Very toxic if swallowed

R38 - Irritating to skin

Risk Combination Phrases R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed

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

environment

R-phrase(s)



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SECTION 2. HAZARDS IDENTIFICATION

Label Elements



Signal Word **Hazard Statements** **Danger**

H300 - Fatal if swallowed

H372 - Causes damage to organs through prolonged or repeated exposure if swallowed

H315 - Causes skin irritation

H411 - Toxic to aquatic life with long lasting effects

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

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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.
Thallous sulfate 7446-18-6	EEC No. 231-201-3	> 99.9	7446-18-6	T+; R28 Xi; R38 T; R48/25 N; R51-53	Acute Tox. 2 (H300) Skin Irrit. 2 (H315) STOT RE 1 (H372) Aquatic Chronic 2 (H411)	-

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



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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. Immediate medical attention is required.

Ingestion Do not induce vomiting. 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

Non-combustible.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

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.



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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use only in area provided with appropriate exhaust ventilation.

Conditions for safe storage, including any incompatibilities

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

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Component

Thallous sulfate

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

ComponentThallous sulfate

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

Component Thallous sulfate

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

Component Thallous sulfate

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)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment



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Eye Protection Goggles

Hand Protection Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149

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 StatePowder, SolidAppearanceWhiteodorodorless

pHNo information available.Vapor PressureNo information available.Vapor DensityNo information available.Boiling Point/RangeNo information available.Melting Point/Range632°C / 1169.6°FFlash PointNo information available.

Autoignition Temperature

No information available.

No information available.

Vater Solubility

4.87G/100ML (20°C)

Specific Gravity 6.770
Molecular Formula O4 S TI2
Molecular Weight 504.79

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

Excess heat, Incompatible products.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Sulfur oxides.



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

ComponentLD50 OralLD50 DermalLC50 InhalationThallous sulfate16 mg/kg (Rat)550 mg/kg (Rat)

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Other Adverse Effects See actual entry in RTECS for complete information

Endocrine Disruptor Information None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effectsContains 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



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Other adverse effects

No information available

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
T	hallous sulfate	231-201-3	-		X	Х	-	X	X	X	X	X



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Legend

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

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

R28 - Very toxic if swallowed

R38 - Irritating to skin

R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed

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

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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