

Creation Date Oct-2013 Revision Date Oct-2018 Revision Number 2

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

Product Identifier

Product Description: Mercury (II) sulfate

 Product Grade:
 ER, SQ

 CAS No:
 7783-35-9

 Cat No.
 Q15554, Q25394

Synonyms Mercuric sulfate, Mercuric sulphate

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 Thermo Fisher Scientific India Pvt. Ltd

403-404, B-wing, Delphi, Hiranandani Business Park,

Powai, Mumbai 400076, INDIA.

E-mail address <u>laboratorysolutions@thermofisher.com</u>

Emergency telephone number

India Toll Free: 18 00 22 22 30 Chemtrec US: (800)424-9300 Chemtrec EU: 001(202)483-7616

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 2
Acute dermal toxicity	Category 1
Acute Inhalation Toxicity - Vapors	Category 1
Specific target organ systemic toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

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 R33 - Danger of cumulative effects

Risk Combination Phrases R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

R50/53 - Very 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

Danger

Hazard Statements

H410 - Very toxic to aquatic life with long lasting effects

H330 - Fatal if inhaled

H300 - Fatal if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

H310 - Fatal in contact with skin

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

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

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.
Mercuric sulfate 7783-35-9	EEC No. 231-992-5	> 99	7783-35-9	T+; R26/27/28 R33 N; R50-53	Acute Tox. 2 (H300) Acute Tox. 1 (H310) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-

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 Call a physician immediately. Clean mouth with water.

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

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

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.

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

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Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

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. Do not ingest. 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. Store under an inert atmosphere.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits
Component
Mercuric sulfate

Ī	European Union	The United Kingdom	France	Belgium	Spain
			VME: 0.1 mg/m ³ 8		Skin
			heures. Ĥg		VLA-ED: 0.025 mg/m ³ 8
			Skin		horas

ComponentMercuric sulfate

Italy	Germany	Portugal	The Netherlands	Finland
, and	MAK: 0.02 mg/m³ 8 Stunden. inhalable fraction Skin Peak: 0.16 mg/m³ TWA: 0.1 mg/m³ 8 Stunden. inhalable	TWA: 0.1 mg/m³ 8 horas TWA: 0.025 mg/m³ 8 horas Skin		TWA: 0.05 mg/m³ 8 tunteina Skin
	fraction exposure factor 8			

ComponentMercuric sulfate

Austria	Denmark	Switzerland	Poland	Norway
Skin STEL: 0.4 mg/m³ 15 Minuten TWA: 0.1 mg/m³ 8		STEL: 0.8 mg/m³ 15 Minuten MAK: 0.1 mg/m³ 8 Stunden		TWA: 2 mg/m³ 8 timer TWA: 0.02 mg/m³ 8 timer
Stunden		Sturideri		

Biological limit values

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

Component

)			
European Union	United Kingdom	France	Spain	Germany

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Mercuric sulfate

Total inorganic
Mercury: 0.015 mg/L
blood end of shift at end
of workweek
Total inorganic
Mercury: 0.050 mg/g
creatinine urine prior to
shift

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

Exposure controls

Engineering Measures

Personal protective equipment

Eve Protection

Hand Protection Skin and body protection Respiratory Protection Goggles
Protective gloves

Wear appropriate protective gloves and clothing to prevent skin exposure

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

Ensure adequate ventilation, especially in confined areas

Hygiene Measures

Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StatePowder, SolidAppearanceOff-whiteodorodorlesspH1 50 g/l aq.sol.Vapor Pressurenegligible

Vapor DensityNo information available.Boiling Point/RangeNo information available.Melting Point/RangeNo information available.

Decomposition temperature 450 °C

Flash PointAutoignition Temperature
No information available.
No information available.

Water SolubilityreactsSpecific Gravity6.470Molecular FormulaHg O4 SMolecular Weight296.64

SECTION 10. STABILITY AND REACTIVITY

Reactivity

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Chemical Stability

Stable under normal conditions. Hygroscopic. Air sensitive. Light sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . No information available.

Conditions to Avoid

Exposure to air, Exposure to light, Incompatible products, Exposure to moist air or water.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

<u>Information on Toxicological Effects</u>

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercuric sulfate	57 mg/kg(Rat)	625 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 The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information

Endocrine Disruptor Information None known

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SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects Do not empty into drains

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

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 1645 Hazard Class 6.1 Packing Group II

Proper Shipping Name MERCURY SULPHATE

ADR

UN-No 1645 Hazard Class 6.1 Packing Group II

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SECTION 14. TRANSPORT INFORMATION

Proper Shipping Name MERCURY SULPHATE

IATA

UN-No 1645 Hazard Class 6.1 Packing Group II

Proper Shipping Name MERCURY SULPHATE

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
Mercuric sulfate	231-992-5	-		X	X	-	X	X	X	X	X

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

R33 - Danger of cumulative effects

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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SECTION 16. OTHER INFORMATION

Creation Date Oct-2013 Next Revision Date Oct-2023

Revision Summary SDS section 1 updated and update of Format.

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