

SAFETY DATA SHEET

Creation Date 16-Mar-2010

Revision Date 28-Mar-2024

Revision Number 3

1. Identification

Product Name

L-Threonine methyl ester hydrochloride

Cat No.: H62118

CAS No Synonyms

ms No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

39994-75-7

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Methyl L-threoninate hydrochloride		39994-75-7	>95				
	4.	First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.						
Ingestion	Do NOT induce vomiting. Get medical attention.						
Most important symptoms and effects	No information available.						
Notes to Physician	Treat symptomatically						
	E E:						

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). Hydrogen chloride gas.

Protective Equipment and Precautions for Firefighters

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

NFPA Health 1	Flammability 1	Instability 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.					
Environmental Precautions	Should not be released into the environment. See Section 12 for additional Ecologica Information.					

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage				
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage.	Keep container tightly closed in a dry and well-ventilated place. Keep refrigerated. Incompatible Materials. Strong oxidizing agents.				
8. E	xposure controls / personal protection				
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.				
Engineering Measures	None under normal use conditions.				
Personal Protective Equipment					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.				
Respiratory Protection	No protective equipment is needed under normal use conditions.				
Recommended Filter type:	Particle filter.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
Ç	9. Physical and chemical properties				
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Physical State	Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	64 °C / 147.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C5 H11 N O3 . H Cl
Molecular Weight	169.61
-	

10. Stability and reactivity

L-Threonine methyl ester hydrochloride

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.					
Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx), Hydrogen chloride gas					
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as	nformation				
Irritation	No information available				
Sensitization	No information available				

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Methyl L-threoninate hydrochloride	39994-75-7	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effects	i	No information available.							
Developmental Effect	ts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single exposu STOT - repeated expo		None known None known							
Aspiration hazard		No information available							
Symptoms / effects,I delayed	both acute and	d No information available							
Endocrine Disruptor	Information	No information available							
Other Adverse Effect	s	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
Ecotoxicity									

<u>Ecotoxicity</u> Do not empty into drains.

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility

No information available.

	13. Disposal considerations				
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				
14. Transport information					
DOT TDG IATA	Not regulated				
TDG	Not regulated				
ΙΑΤΑ	Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methyl L-threoninate hydrochloride	39994-75-7	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Methyl L-threoninate hydrochloride	39994-75-7	-	-	254-738-5	-	-	Х	-	-	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

REACH (1907/2006) -Annex XIV - Substances CAS No REACH (1907/2006) -**REACH Regulation (EC** Component 1907/2006) article 59 -Annex XVII - Restrictions Subject to Authorization on Certain Dangerous Candidate List of Substances of Very High Substances Concern (SVHC) 39994-75-7 Methyl L-threoninate hydrochloride -

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Methyl L-threoninate hydrochloride	39994-75-7	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Convention (PIC)	Basel Convention (Hazardous Waste)
Methyl L-threoninate hydrochloride	39994-75-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Mar-2010 28-Mar-2024 28-Mar-2024 New emergency telephone response service provider.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS