

SAFETY DATA SHEET

Revision Date 28-Mar-2024

Revision Number 3

1. Identification

Product Name

L-Serine methyl ester hydrochloride

Cat No. : A12355

CAS No Synonyms

Recommended Use Uses advised against

Laboratory chemicals. Food, 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)

5680-80-8

No information available

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-serinate hydrochlo	ride		5680-80-8		98		
	1	First ald					
	4.	First-aid	measure	\$			
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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.						
nhalation	Remove from	exposure, lie	down. Remov	e to fresh a	ir.		
ngestion	Clean mouth	with water. Ge	et medical atte	ntion.			
Most important symptoms and effects	No informatio	n available.					
Notes to Physician	Treat symptomatically						
	5. Fi	re-fightin	g measu	res			
Nuite ble Fratie en is bie en Mardia		Oarthan diamid		h a mia al O			
Suitable Extinguishing Media	dia Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.						
Insuitable Extinguishing Media	No information available						
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits	Not applicable						
Upper	No data available						
Lower Sensitivity to Mechanical Impact	No data avail						
Sensitivity to Static Discharge	No information available						
Specific Hazards Arising from the C Keep product and empty container awa		nd sources of i	ignition.				
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxi Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefig	hters		-			
NFPA Health 0	Flammabi 1	lity	Inst	ability 0	Physical hazards N/A		
		ental rel					
Personal Precautions Environmental Precautions		uate ventilation			equipment as required.		
Methods for Containment and Clean Jp	Sweep up an	d shovel into s	uitable contair	ners for disp	oosal.		
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7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust.	
Storage.	Keep in a dry place. Keep container tightly closed. Keep refrigerated. Incompatible Materials. Strong acids. Strong bases.	
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.	

9. Physica	I and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	160 - 165 °C / 320 - 329 °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	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H9 N O3 . H Cl
Molecular Weight	155.58

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Stable.

Conditions to Avoid	Avoid dust formation. Excess heat. Exposure to light. Incompatible products. Exposure to moisture.
Incompatible Materials	Strong acids, Strong bases
Hazardous Decomposition Produc	ts Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), 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 w	No acute toxicity information is available for this product No information available vell as chronic effects from short and long-term exposure
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-serinate hydrochloride	5680-80-8	Not listed	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects		No information ava	ailable		-					
Reproductive Effects		No information available.								
Developmental Effect	cts	No information ava	ailable.							
Teratogenicity		No information available.								
STOT - single expos STOT - repeated exp		None known None known								
Aspiration hazard		No information available								
Symptoms / effects,both acute and No information available delayed										
Endocrine Disruptor	Information	No information ava	ailable							
Other Adverse Effec	ts	The toxicological p	properties have not	been fully investig	gated.					
		12. Ecol	ogical infor	mation						
Ecotoxicity										

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Do not empty into drains.
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Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

	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	Not regulated
DOT TDG IATA	Not regulated
	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-serinate hydrochloride	5680-80-8	-	-	-

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 Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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-serinate hydrochloride	5680-80-8	-	-	227-140-7	-	Х	Х	-	-	KE-30934

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

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · J · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Methyl L-serinate hydrochloride	5680-80-8	-	-	-

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-serinate hydrochloride	5680-80-8	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-serinate hydrochloride	5680-80-8	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

Revision Date Print Date Revision Summary 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