

SAFETY DATA SHEET

Revision Date 28-Mar-2024

Revision Number 3

1. Identification

Product Name

DL-Threonine

Cat No.:A10606CAS No
Synonyms80-68-2
No information available

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)

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

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No		Weight %		
DL-Threonine		80-68-2		99.5		
	4. Firs	st-aid measures				
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact		tely with soap and plenty of was. Get medical attention.	ater while removing	g all contaminated		
nhalation	Remove from expe	osure, lie down. Remove to fre	sh air. Get medica	l attention.		
ngestion	Clean mouth with	water. Get medical attention.				
lost important symptoms and ffects	No information ava	ailable.				
lotes to Physician	Treat symptomatic	cally				
	5. Fire-f	ighting measures				
uitable Extinguishing Media	Water spray. Carb	oon dioxide (CO 2). Dry chemic	al. Chemical foam.			
nsuitable Extinguishing Media	No information ava	ailable				
Flash Point Method -	No information ava No information ava					
utoignition Temperature Explosion Limits	No information ava	ailable				
Upper	No data available					
Lower	No data available	9.11				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information ava					
pecific Hazards Arising from the C eep product and empty container awa		ources of ignition.				
lazardous Combustion Products litrogen oxides (NOx). Carbon monoxi Protective Equipment and Precautio as in any fire, wear self-contained breat rotective gear.	ns for Firefighters	S	H (approved or equ	ivalent) and full		
IFPA Health 0	Flammability	Instability 0	I	Physical hazards N/A		
	6. Acciden	tal release measur	es			
Personal Precautions Invironmental Precautions	Ensure adequate	ventilation. Use personal prote r additional Ecological Informa	ctive equipment as	s required.		
lethods for Containment and Clean	Sweep up and sho environment.	ovel into suitable containers fo	r disposal. Do not l	et this chemical enter t		

7. Handling and storage

Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. 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.

9. Phy	sical and chemical properties
Physical State	Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	244 °C / 471.2 °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	C4 H9 N O3
Molecular Weight	119.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.

Mobility

Conditions to Avoid		Incompatible prod	ucts.					
Incompatible Materia	ls	Strong oxidizing a	gents					
Hazardous Decompo	sition Products	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)						
Hazardous Polymeriz	zation	Hazardous polymerization does not occur.						
Hazardous Reactions	6	None under norma	al processing.					
	11. Toxicological information							
Acute Toxicity			~					
Product Information		No acute toxicity in	nformation is availa	able for this produc	t			
Component Informat Toxicologically Syne		No information ava	ailable					
Products Delayed and immedia	ate effects as w	ell as chronic effe	ects from short an	d long-term expo	sure_			
Irritation		No information ava	ailable					
Sensitization		No information ava	ailable					
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component DL-Threonine	CAS No 80-68-2	IARC Not listed	NTP Not listed	ACGIH Not listed	Not listed	Mexico Not listed		
Mutagenic Effects	80-08-2	No information ava		Not listed	Not listed	Not listed		
Reproductive Effects	5	No information ava	ailable.					
Developmental Effec		No information available.						
Teratogenicity		No information available.						
STOT - single exposi	ure	None known						
STOT - repeated exp		None known						
Aspiration hazard		No information available						
Symptoms / effects, delayed	both acute and	d No information available						
Endocrine Disruptor	Information	No information available						
Other Adverse Effects The toxicological properties have not been fully investigated.								
	12. Ecological information							
Ecotoxicity Do not empty into drains								
Persistence and Deg	radability	Soluble in water P	ersistence is unlike	ely based on inform	nation available.			
Bioaccumulation/ Ac	cumulation	No information available.						

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	Not regulated				
ATA Not regulated					
IMDG/IMO					
15. Regulatory information					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
DL-Threonine	80-68-2	Х	ACTIVE	-

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
DL-Threonine	80-68-2	Х	-	201-300-6	Х	Х	Х	Х	Х	KE-33825

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 cor	tain 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 cor	ntain any DHS chemicals.
Other International Regulations		
Mexico - Grade	No information available	
Authorisation/Restrictions accordin	g to EU REACH	Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
DL-Threonine	80-68-2	-	-	-

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)
[DL-Threonine	80-68-2	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	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
DL-Threonine	80-68-2	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	28-Mar-2024 28-Mar-2024	

Revision Summary

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