

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 4

1. Identification

Product Name DL-Threonine

Cat No. :

Synonyms

CAS No

80-68-2 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

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **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

AC138940000; AC138940250; AC138941000; AC138945000

2. Hazard(s) identification

Classification

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			S No	W	eight %	
DL-Threonine		80-0	38-2		99.5	
	4. F	irst-aid me	asures			
Eye Contact	Rinse immedia medical attenti		water, also under	the eyelids, for at le	east 15 minutes. Ge	
Skin Contact		Vash off immediately with soap and plenty of water while removing all contaminated lothes and shoes. Get medical attention.				
nhalation	Remove from e	exposure, lie dowr	. Remove to fresh	air. Get medical at	tention.	
ngestion	Clean mouth w	vith water. Get me	dical attention.			
lost important symptoms and ffects	No information	available.				
Notes to Physician	Treat symptom	natically				
	5. Fire	e-fighting m	neasures			
uitable Extinguishing Media	Water spray. C	arbon dioxide (CC	2). Dry chemical.	Chemical foam.		
Insuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information	available				
Upper	No data availa	ble				
Lower	No data availa					
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	t No information available No information available					
pecific Hazards Arising from the C eep product and empty container awa		d sources of ignition	on.			
Hazardous Combustion Products Jitrogen oxides (NOx). Carbon monox Protective Equipment and Precautio As in any fire, wear self-contained breach protective gear.	ons for Firefigh	ters	d, MSHA/NIOSH (approved or equiva	lent) and full	
Health 0	Flammabili 1	ty	Instability 0	Phy	ysical hazards N/A	
	6. Accide	ental releas	e measure	S		
Personal Precautions Environmental Precautions		ate ventilation. Use 2 for additional Eco		ve equipment as re n.	quired.	
Aethods for Containment and Clean Jp	Sweep up and environment.	shovel into suitab	le containers for d	isposal. Do not let t	his chemical enter tl	

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 Personal Protective Equipment	None under normal use conditions.
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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	

Incompatible Mater	ials	Strong oxidizing agents				
Hazardous Decomp	osition Products	s Nitrogen oxides (N	IOx), Carbon mone	oxide (CO), Carbor	n dioxide (CO2)	
Hazardous Polyme	rization	Hazardous polymerization does not occur.				
Hazardous Reaction	ns	None under normal processing.				
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information Component Information		No acute toxicity in	nformation is availa	able for this produc	t	
Toxicologically Syr Products		No information ava	ailable			
Delayed and immed	liate effects as w	vell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
DL-Threonine Mutagenic Effects	80-68-2	Not listed	Not listed	Not listed	Not listed	Not listed
Reproductive Effec	ts	No information ava	ailable.			
Developmental Effe	ects	No information available.				
Teratogenicity		No information available.				
STOT - single expo STOT - repeated ex		None known None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	s,both acute and	No information ava	ailable			
Endocrine Disrupto	or Information	No information ava	ailable			
Other Adverse Effe	The toxicological properties have not been fully investigated.					
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains					
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ A	ccumulation	No information ava	ailable.			
Mobility		Will likely be mobile in the environment due to its water solubility.				
		13. Dispo	sal conside	erations		
Waste Dispesal Ma	thada	Chamical wasts an	norotoro muct dat	armina whather -	discorded chamical	

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
TDG	Not regulated
DOT TDG IATA	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
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 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
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

Not applicable
See section 2 for more information
Not applicable
Not applicable
Not applicable
Not applicable
This product does not contain any Proposition 65 chemicals.
Not applicable
N N N This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

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
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	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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