

## SAFETY DATA SHEET

Creation Date 10-Dec-2010

Revision Date 28-Mar-2024

**Revision Number** 3

 1. Identification

 Product Name
 L-Tryptophan

 Cat No. :
 J62508

 CAS No
 73-22-3

 Synonyms
 TRP

 Recommended Use
 Laboratory chemicals.

 Uses advised against
 Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

#### Company

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

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No 73-22-3	<b>Weight %</b>				
L-Tryptophan		13-22-3	> २२				
	4.	First-aid measures					
<b>ye Contact</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention if symptoms occur.							
Skin Contact	Wash off imn physician.	nediately with plenty of water for at leas	t 15 minutes. If symptoms persist, call a				
Inhalation	Remove to fr physician.	esh air. If not breathing, give artificial re	spiration. If symptoms persist, call a				
Ingestion	Do NOT indu	ce vomiting. Clean mouth with water. G	et medical attention if symptoms occur.				
Most important symptoms and effects	None reasonably foreseeable.						
Notes to Physician Treat symptomatically							
	5. Fi	re-fighting measures					
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical. C	chemical foam.				
Unsuitable Extinguishing Media No information available							
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits	No information	on available					
Upper	No data avai						
Lower	No data avai						
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information						
Specific Hazards Arising from the C	hemical						

Specific Hazards Arising from the Chemical Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). **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.

Health	Flammability	Instability	Physical hazards
1	1	0	N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective ec	uipment as required. Ensure a	adequate ventilation.
Environmental Precautions	Should not be released inte	the environment.	
Methods for Containment and C	lean Sweep up and shovel into	suitable containers for disposa	al. Do not let this chemical enter the

he environment. Avoid dust formation. Up

	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. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.
8. E	Exposure 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.
<b>Respiratory Protection</b>	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. Physical and chemical properties
Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
nU	55 70

Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Powder Solid Off-white Odorless No information available 5.5 - 7.0 280 - 285 °C / 536 - 545 °F No information available No information available Not applicable No information available

No data available No data available No information available Not applicable No information available 11.4 g/L (25°C) No data available No information available No information available Not applicable C11 H12 N2 O2 204.23

### 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

### 11. Toxicological information

#### Acute Toxicity

### Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
L-Tryptophan	LD50 > 16 g/kg (Rat)	Not listed	LC50 > 5.75 mg/L (Rat) 4 h
Toxicologically Synergistic	No information available		•
Products Delayed and immediate effects	as well as chronic effects from s	hort and long-term expos	sure
	as well as chronic effects from sl May cause irritation	hort and long-term expos	sure

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

#### Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
L-Tryptophan	73-22-3	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effects		No information available.							
Developmental Effect	S	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,b delayed	ooth acute and	No information ava	ailable						
Endocrine Disruptor I	nformation	tion No information available							
Other Adverse Effects	5	The toxicological p	properties have not	t been fully investig	gated.				
		12. Ecolo	ogical infor	mation					

#### Ecotoxicity

Do not empty into drains.

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.

Component	log Pow
L-Tryptophan	-1.06

	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
L-Tryptophan	73-22-3	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 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
L-Tryptophan	73-22-3	Х	-	200-795-6	Х	Х	Х	Х	Х	KE-01428

**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

<b>OSHA</b> - Occupational Safety and	Not applicable
Health Administration	

#### 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
<b>U.S. Department of Transportation</b> 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	· · · · · · · · · · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
[	L-Tryptophan	73-22-3	-	-	-

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

Compo	nent	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
L-Trypto	ohan	73-22-3	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)
L-Tryptophan	73-22-3	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	10-Dec-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**