

SAFETY DATA SHEET

Revision Date 01-Apr-2024

Revision Number 3

1. Identification

Product Name

N-Toluenesulfonyl-L-proline

Cat No. : H66902

CAS No Synonyms

Recommended Use Uses advised against No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

51077-01-1

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

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Category 3

Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Storage Store locked up Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
N-Toluenesulfonyl-L-proline		51077-01-1	<=100		
	4.	First-aid measures			
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.				
Eye Contact	In the case o advice.	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.				
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.				
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.				
Most important symptoms and effects	None reasonably foreseeable.				
Notes to Physician	Treat sympto	omatically			
5. Fire-fighting measures					

Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method -	No information available

Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	t No information available
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). Sulfur oxides.

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA						
Health 3	Flammability 1	Instability 0	Physical hazards -			
	6. Accidental re	elease measures				
Personal Precautions	Ensure adequate ventilat	ion. Use personal protective equ way from and upwind of spill/lea				
Environmental Precautions		Should not be released into the environment. See Section 12 for additional Ecological Information.				
Methods for Containment and Cle Up	ean Sweep up and shovel into	o suitable containers for disposa	I. Avoid dust formation.			
	7. Handling	and storage				
Handling	clothing. Avoid dust forma	equipment/face protection. Do nation. Use only under a chemica ingest. If swallowed then seek in	I fume hood. Do not breathe (dust,			
Storage.	Store in freezer.					
8. E	Exposure controls	/ personal protecti	on			
Exposure Guidelines		ntain any hazardous materials w egion specific regulatory bodies.				
Engineering Measures	Ensure adequate ventilati	ion, especially in confined areas				
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 protecti	ive gloves and clothing to preven	nt skin exposure.			
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.					
Recommended Filter type:	Particulates filter conform	ing to EN 143.				

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties
Physical State	Solid Low melting solid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
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/wa	ater No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H15 N O4 S
Molecular Weight	269.32

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 Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides			
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 y	No information available well 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.

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Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
N-Toluenesulfonyl-L-pr oline	51077-01-1	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effect	S	No information available.						
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	ilable					
Symptoms / effects delayed	both acute and	No information ava	ilable					
Endocrine Disruptor	Information	No information ava	ilable					
Other Adverse Effect	ts	The toxicological p	roperties have no	been fully investig	jated.			
		12. Ecolo	ogical infor	mation				
Ecotoxicity Do not empty into dra	ins.							
Persistence and Deg	gradability	No information available						
Bioaccumulation/ A	ccumulation	No information available.						
Mobility		No information available.						
		13. Dispo	sal conside	erations				
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				gional, and		
		14. Tran	sport infor	mation				
DOT UN-No Proper Shipping Technical Name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Hazard Class		UN2811 Toxic solid, organic (N-Toluenesulfony 6.1 III UN2811 Toxic solid, organic 6.1	l-L-proline)					
Packing Group IATA UN-No Proper Shipping Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Hazard Class		III UN2811 TOXIC SOLID, ORGANIC, N.O.S* 6.1 III UN2811 Toxic solid, organic, n.o.s. 6.1						

Packing Group

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15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
N-Toluenesulfonyl-L-proline	51077-01-1	-	-	-

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
N-Toluenesulfonyl-L-proline	51077-01-1	-	-	-	-	-		-	-	-

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):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	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)
N-Toluenesulfonyl-L-proline	51077-01-1	-	-	-

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)
N-Toluenesulfonyl-L-proline	51077-01-1	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	Convention (PIC)	Basel Convention (Hazardous Waste)
1	N-Toluenesulfonyl-L-proline	51077-01-1	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	01-Apr-2024 01-Apr-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