

SAFETY DATA SHEET

Revision Date 28-Mar-2024

Revision Number 3

Product Name	1. Identification D-Proline	
Cat No. :	A10682	
CAS No Synonyms	344-25-2 (R)-Pyrrolidine-2-carboxylic acid.	
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

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
D-Proline		344-25-2	> 99				
4. First-aid measures							
Eye Contact	Rinse immec medical atter		he eyelids, for at least 15 minutes. Get				
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.							
Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.							
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and	None reasonably foreseeable.						
Notes to Physician	Iffects Iotes to Physician Treat symptomatically						
	5. Fi	re-fighting measures					
Suitable Extinguishing Media	Water spray.	Carbon dioxide (CO 2). Dry chemical.	Chemical foam.				
Unsuitable Extinguishing Media	No information available						
Flash Point Method -	No information No information						
Autoignition Temperature Explosion Limits	Not applicabl	le					
Upper	No data avai						
Lower	No data avai						
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information No information						
Specific Hazards Arising from the C Keep product and empty container awa		and sources of ignition.					

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). **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.

NFPA Health 0	Flammability 1	Instability 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.					
Environmental Precautions	Should not be released into Information.	o the environment. See Section	12 for additional Ecological		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.
8.	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.
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. Physical and chemical properties
Physical State	Powder Solid
Appearance	Off-white
Odor	No information available
Odor Threshold	No information available
pH Molting Point/Pango	6.3 100g/L (25°C) 223 - 220 °C / 433.4 - 428 °F
Melting Point/Range	223 - 220 C / 433.4 - 420 F

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**

220 °C / 433.4 223 428 ۲ 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 No information available No data available Not applicable No information available Not applicable C5 H9 N O2 115.13

10. Stability and reactivity

Reactive Hazard		None known, base	None known, based on information available							
Stability		Stable under normal conditions.								
Conditions to Avoid	ł	Incompatible prod	ucts.							
Incompatible Mater	ials	Strong oxidizing a	gents							
Hazardous Decomp	osition Produc	ts Nitrogen oxides (N	NOx), Carbon mon	oxide (CO), Carbor	n dioxide (CO2)					
Hazardous Polymer	ization	Hazardous polyme	erization does not	occur.						
Hazardous Reaction	ns	None under norma	al processing.							
		11. Toxico	ological info	ormation						
Acute Toxicity										
Product Information	-	No acute toxicity information is available for this product								
Component Informa Toxicologically Syn Products		No information available								
Delayed and immed	liate effects as	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.								
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico				
D-Proline	344-25-2	Not listed	Not listed	Not listed	Not listed	Not listed				
Mutagenic Effects		No information av	ailable							
Reproductive Effect	ts	No information available.								
Developmental Effe	ects	No information ava	ailable.							
Teratogenicity		No information available.								

STOT - single exposureNone knownSTOT - repeated exposureNone known

 Aspiration hazard
 No information available

 Symptoms / effects,both acute and delayed
 No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Persistence and DegradabilitySoluble in water Persistence is unlikely based on information available.Bioaccumulation/ AccumulationNo information available.MobilityWill 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						
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
D-Proline	344-25-2	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 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
D-Proline	344-25-2	-	Х	206-452-7	-	Х	Х	-	Х	-

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	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
D-Proline	344-25-2	-	-	-

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)
D-Proline	344-25-2	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	(2012/18/EC) -	Convention (PIC)	Basel Convention (Hazardous Waste)
D-Proline	344-25-2	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 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