

SAFETY DATA SHEET

Creation Date 26-Mar-2012

Revision Date 26-Jan-2018

Revision Number 3

	1. Identification
Product Name	L-Leucine
Cat No. :	AC125120000; AC125120025; AC125121000; AC125125000
CAS-No Synonyms	61-90-5 L-2-Amino-4-methylpentanoic acid; L-Leu
Recommended Use Uses advised against Details of the supplier of the safet	Laboratory chemicals. Food, drug, pesticide or biocidal product use. ty data sheet
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410
Emergency Number US:001-201-79	CROS-01 / Europe call: +32 14 57 52 11 16-7100 / Europe: +32 14 57 52 99 24-9300 / Europe: 001-703-527-3887

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

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients				
Component	CAS-No	Weight %		
•				

		id measures			
	Rinse immediately with				
	medical attention.	plenty of water, also under t	he eyelids, for at least 15 minutes. Ge		
kin Contact	Wash off immediately v	vith plenty of water for at leas	st 15 minutes. Get medical attention.		
nhalation	Remove to fresh air. If	preathing is difficult, give oxy	gen. Get medical attention.		
ngestion	Do NOT induce vomitin	g. Get medical attention.			
	No information availabl	e.			
ffects lotes to Physician	Treat symptomatically				
	5. Fire-figh	ting measures			
	<u> </u>				
uitable Extinguishing Media	Water spray. Carbon di	oxide (CO 2). Dry chemical. (Chemical foam.		
Insuitable Extinguishing Media	No information available				
	No information available No information available				
xplosion Limits Upper Lower Sensitivity to Mechanical Impact	No information availabl No data available No data available No information availabl No information availabl	e			
pecific Hazards Arising from the Ch eep product and empty container awa		s of ignition.			
lazardous Combustion Products litrogen oxides (NOx). Carbon monoxie Protective Equipment and Precaution as in any fire, wear self-contained breat rotective gear.	ns for Firefighters		pproved or equivalent) and full		
IFPA Health 1	Flammability 1	Instability 1	Physical hazards N/A		
	6. Accidental	release measures			

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment. 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. Avoid dust formation. Protect from light. Protect from

	moisture.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Protect from direct sunlight. Protect from light. Protect from moisture.
8. Ex	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	5.5-6.5
Melting Point/Range	286 - 288 °C / 546.8 - 550.4 °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	C6 H13 N O2
Molecular Weight	131.17
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Moisture sensitive. Light sensitive.
Conditions to Avoid	Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Mater	ials	Strong oxidizing ag	gents			
Hazardous Decomp	osition Products	s Nitrogen oxides (N	Ox), Carbon mono	oxide (CO), Carbon	n dioxide (CO2)	
Hazardous Polyme	rization	Hazardous polyme	rization does not o	occur.		
Hazardous Reactio	ns	None under norma	None under normal processing.			
		11. Toxico	logical info	ormation		
Acute Toxicity						
Product Information		No acute toxicity in	formation is availa	ble for this produc	t	
Component Informa Toxicologically Syr		No information ava	ilable			
Products Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expo	<u>sure</u>	
Irritation		May cause skin, ey	e, and respiratory	tract irritation		
Sensitization		No information ava	ilable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
L-Leucine	61-90-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effec	ts	No information ava	ilable.			
Developmental Effe	ects	No information ava	ilable.			
Teratogenicity		No information ava	ilable.			
STOT - single expo STOT - repeated ex		None known None known				
Aspiration hazard		No information ava	ilable			
Symptoms / effects delayed	s,both acute and	No information ava	ilable			
Endocrine Disrupto	or Information	No information ava	ilable			
Other Adverse Effe	cts	The toxicological p complete informati		been fully investig	ated. See actual e	ntry in RTECS for
		12. Ecolo	ogical infor	mation		
Ecotoxicity Do not empty into dr	ains.		<u> </u>			
Persistence and De	egradability	Soluble in water Pe	ersistence is unlike	ely based on inform	nation available.	
Bioaccumulation/ A	Accumulation	No information ava	ilable.			
Mobility		Will likely be mobil	e in the environme	ent due to its water	solubility.	
		13. Dispo	sal conside	erations		

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 	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
L-Leucine	61-90-5	Х	ACTIVE	-

Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
L-Leucine	61-90-5	Х	-	200-522-0	Х	Х	Х	Х	-

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
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

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	26-Mar-2012
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Print Date	26-Jan-2018
Revision Summary	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