

SAFETY DATA SHEET

Creation Date 16-Jan-2009	Revision Number 3				
	1. Identification				
Product Name	L-Lysine				
Cat No. :	AC303340000; AC303340050; AC303340250; AC30 AC303345000	03341000;			
CAS-No Synonyms	56-87-1 (S)-2,6-Diaminocaproic acid; L-(+)-2,6-Diaminohexanoic acid				
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use				
Details of the supplier of the safety 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 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

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

Component	CAS-No	Weight %
L-Lysine	ne 56-87-1	

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms and	No information available.
effects Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	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)

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 1	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
	Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment. Avoid dust formation.Environmental PrecautionsShould not be released into the environment. See Section 12 for additional ecological information.			
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.				

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

Exposure controls / personal protection
This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
None under normal use conditions.
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.
Wear appropriate protective gloves and clothing to prevent skin exposure.
No protective equipment is needed under normal use conditions.
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

	7. Thysical and chemical properties			
Physical State	Powder Solid			
Appearance	White - Light yellow			
Odor	No information available			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	214 - 216 °C / 417.2 - 420.8 °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/wa	iter No data available			
Autoignition Temperature	Not applicable			
Decomposition Temperature	215 °C			
Viscosity	Not applicable			
Molecular Formula	C6 H14 N2 O2			
Molecular Weight	146.19			

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid Incompatible products. Excess heat. Avoid dust format			
Incompatible Materials Strong oxidizing agents			
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		

Hazardous Reaction	IS	None under normal processing.				
	11. Toxicological information					
Acute Toxicity						
Product Information		No acute toxicity in	formation is availa	ble for this product	t	
Component Informa Toxicologically Synd Products		No information ava	ilable			
Delayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		May cause eye, skin, and respiratory tract irritation				
Sensitization		No information ava	ilable			
Carcinogenicity		The table below in	dicates whether ea	ich agency has list	ed any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
L-Lysine Mutagenic Effects	56-87-1	Not listed No information ava	Not listed	Not listed	Not listed	Not listed
Reproductive Effect	s	No information ava	ilable.			
Developmental Effe	cts	No information ava	ilable.			
Teratogenicity No information available.						
STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard No information available			ilable			
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor	Endocrine Disruptor Information No information available					
Other Adverse Effects The toxicological properties have not been fully investigated.						
		12. Ecolo	ogical infor	mation		
Ecotoxicity						
Persistence and Deg	gradability	No information available				
Bioaccumulation/ A	ccumulation	No information ava	ilable.			
Mobility	Mobility No information available.					
		13. Dispo	sal conside	rations		
Waste Disposal Met	hods	Chemical waste ge hazardous waste. national hazardous	enerators must det Chemical waste g	ermine whether a c enerators must als	o consult local, reg	ional, and
		14. Tran	sport inforr	nation		
DOT TDG	TNot regulated					

<u>IATA</u> IMDG/IMO	Not regulated Not regulated	
	15. Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
L-Lysine	Х	Х	-	200-294-2	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable							
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							

Prepared By

Regulatory Affairs

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Creation Date Revision Date Print Date Revision Summary 16-Jan-2009 19-Jan-2018 19-Jan-2018 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