

SAFETY DATA SHEET

Creation Date 08-Sep-2014

Revision Date 24-Dec-2021

Revision Number 4

Product Name	DL-Methionine					
Cat No. :	AC125650000; AC125650010; AC125650025; AC125651000; AC125652500					
CAS No Synonyms	59-51-8 DL-2-Amino-4-(methylthio)butyric 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> Fisher Scientific Company 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) This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Yes

Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air

Precautionary Statements Storage Store in a well-ventilated place. Keep container tightly closed <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
DL-Methionine	59-51-8	99

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	Remove from exposure, lie down. Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-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 available No information available
Autoignition Temperature Explosion Limits	No information available
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

Dust can form an explosive mixture with air. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

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

<u>NFPA</u>

Health 1	Flammability 1	Instability 0	Physical hazards N/A				
	6. Accidental rele	ease measures					
Personal Precautions Environmental Precautions	Ensure adequate ventilation See Section 12 for additiona	. Use personal protective equi I Ecological Information.	pment as required.				
Methods for Containment and Clea Up	an Sweep up and shovel into su spark-proof tools and explos		Avoid dust formation. Use				
	7. Handling a	nd storage					
Handling		uipment/face protection. Ensu Do not breathe dust. Minimize	re adequate ventilation. Avoid dust generation and				
Storage.		ventilated place. Keep contair laterials. Strong oxidizing age					
8. E	xposure controls /	personal protection	on				
Exposure Guidelines		n any hazardous materials wi on specific regulatory bodies.	th occupational exposure				
Engineering Measures	None under normal use con	ditions.					
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 preven	t skin exposure.				
Respiratory Protection	No protective equipment is r	needed under normal use cond	ditions.				
Hygiene Measures	Handle in accordance with g	ood industrial hygiene and sa	fety practice.				

9. Physical and chemical properties						
Physical State	Powder Solid					
Appearance	White					
Odor	Slight					
Odor Threshold	No information available					
рН	5.6-6.1 1% aq.sol. (25 °C)					
Melting Point/Range	270 - 273 °C / 518 - 523.4 °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	1.340					
Solubility	33.81 g/L @ 25 °C					
Partition coefficient; n-octanol/water	No data available					

Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No information available No information available Not applicable C5 H11 N O2 S 149.21

		10. Stabi	lity and rea	activity					
Reactive Hazard		None known, base	d on information a	vailable					
Stability		Stable under norm	al conditions.						
Conditions to Avoid	d	Temperatures abor	ve 4°C. Incompat	ible products.					
Incompatible Mater	ials	Strong oxidizing ag	rong oxidizing agents						
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides						lfur oxides			
Hazardous Polyme	rization	No information ava	ilable.						
Hazardous Reactio	ns	None under norma	l processing.						
		11. Toxico	logical info	ormation					
Acute Toxicity									
Product Information		No acute toxicity in	formation is availa	able for this produc	t				
Toxicologically Syr Products		No information available							
Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	d long-term expo	sure_				
Irritation		No information ava	No information available						
Sensitization		No information ava	ilable						
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.			
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
DL-Methionine	59-51-8	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava							
Reproductive Effec	ts	No information ava	liladie.						
Developmental Effe	ects	No information ava	ilable.						
Teratogenicity		No information ava	ilable.						
STOT - single exposureNone knownSTOT - repeated exposureNone known									
STOT - repeated ex	posure								
STOT - repeated ex Aspiration hazard	posure		ilable						
•		None known No information ava							
Aspiration hazard Symptoms / effects	s,both acute and	None known No information ava	ilable						

	12. Ecological information			
Ecotoxicity				
•				
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.			
	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			

14. Transport information					
DOT TDG IATA	Not regulated				
<u>TDG</u>	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
	15. Regulatory information				

national hazardous waste regulations to ensure complete and accurate classification.

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
DL-Methionine	59-51-8	Х	ACTIVE	-

Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
DL-Methionine	59-51-8	Х	-	200-432-1	Х	Х	Х	Х	Х	KE-14-0064

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

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	
Authorisation/Restrictions according to EU REACH		

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

Cor	nponent	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
DL-N	lethionine	59-51-8	Listed	Not applicable	Not applicable	Not applicable

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)
DL-Methionine	59-51-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	08-Sep-2014
Revision Date Print Date	24-Dec-2021 24-Dec-2021
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