

SAFETY DATA SHEET

Creation Date 08-Sep-2014	Revision Date 08-Jan-201	5 Revision Number 1		
	1. Identification	1		
Product Name	DL-Methionine			
Cat No. :	AC125650000; AC125650010; AC125650025; AC125651000; AC125652500			
Synonyms	DL-2-Amino-4-(methylthio)butyric acid			
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the sa	No Information available fety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100	Entity / Business Name 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 /		

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)

May form combustible dust concentrations in air

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. Obtain medical attention.

Europe:001-703-527-3887

Most important symptoms/effects No information available. Notes to Physician Treat symptomatically	
Ingestion Never give anything by mouth to an unconscious perso	n. Do not induce vomiting. Obtain
Inhalation Remove from exposure, lie down. Move to fresh air. If the medical attention immediately if symptoms occur.	preathing is difficult, give oxygen. Get
Skin Contact Wash off immediately with plenty of water for at least 1 immediately if symptoms occur.	5 minutes. Get medical attention

	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	No information available
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Dust can form an explosive mixture in air.

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 re	lease measures		
Personal Precautions Environmental Precautions		on. Use personal protective equi nal ecological information.	pment.	
Methods for Containment and Clea Up		pillage and collect in suitable co f tools and explosion-proof equi		
	7. Handling	and storage		
Handling		dust. Do not breathe vapors or s	ntilation. Avoid contact with skin pray mist. Minimize dust	
Storage	Keep in a dry, cool and we refrigerated.	ell-ventilated place. Keep contair	ner tightly closed. Keep	
8. E	xposure controls	/ personal protection	on	
Exposure Guidelines	This product does not con established by the region	tain any hazardous materials wit specific regulatory bodies.	th occupational exposure limits	

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
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	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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical propert	les
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Physical State	Powder Solid
Appearance	White
Odor	Slight
Odor Threshold	No information available
pH	5.6-6.1 1% ag.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	No information available
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	No information available
Relative Density	1.340
Solubility	33.81 g/L @ 25 °C
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C5 H11 N O2 S
Molecular Weight	149.21
moroodial froight	110.21

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Temperatures above 4°C. Incompatible products.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		
Acuta Taviaitu	11. Toxicological information		

Acute Toxicity

Product Information Component Information		No acute toxicity information is available for this product							
Toxicologically Syr Products		No information available							
	diate effects as w	ffects as well as chronic effects from short and long-term exposure							
Irritation		No information available							
Sensitization		No information ava	ailable						
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient	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	ailable						
Reproductive Effec	ts	No information ava	ailable.						
Developmental Effe	ects	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expo		None known							
STOT - repeated ex	posure	None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	s,both acute and	nd No information available							
Endocrine Disrupto	r Information No information available								
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.							
12. Ecological information									
Ecotoxicity Do not empty into dra	ains.								
Persistence and De	gradability	No information ava	ailable						
Bioaccumulation/ A	Accumulation	No information available.							
Mobility		No information available.							
		13. Dispo	sal conside	erations					
Waste Disposal Me	thods	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. Trar	nsport inform	mation					
DOT		Not regulated							
TDG		Not regulated							
	Not regulated								
IMDG/IMO									
		15. Regu	latory infor	mation					

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
DL-Methionine	Х	Х	-	200-432-1	-		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
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SARA 311/312 Hazardous Categorization	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

State Right-to-Know	Not applicable
	i tot applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

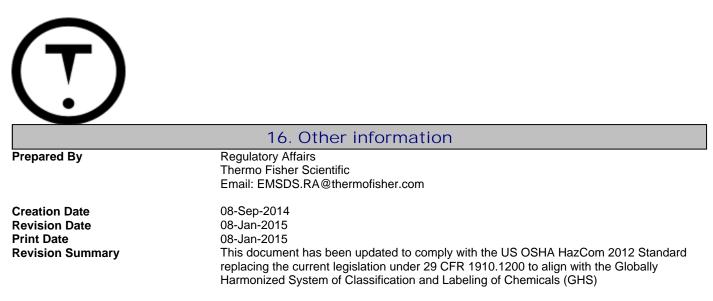
No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2A Very toxic materials



Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS