

Catalog Number: 101662 Revision date: 25-Apr-2006

#### **IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION** 1.

Catalog Number: 101662

Product name: DL-ETHIONINE

Synonyms: 2-Amino-4-(Ethylthio)butyric Acid; S-Ethyl-DL-Homocysteine Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components DL-ETHIONINE

**CAS Number** 67-21-0

Weight % 90 - 100%

**ACGIH Exposure Limits:** None

**OSHA Exposure Limits:** None

## **3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.

**Category of Danger:** Harmful

Principle routes of exposure: Skin Inhalation: Harmful by inhalation. Ingestion: Harmful if swallowed. Skin contact: Harmful in contact with skin. Eye contact: Risk of serious damage to eyes

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

## **4. FIRST AID MEASURES**

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### Protection of first-aiders: No information available Medical conditions aggravated by exposure: None known

## **5. FIRE FIGHTING MEASURES**

Suitable extinguishing media: Specific hazards: Unusual hazards: Special protective equipment for firefighters: Specific methods: Flash point: Autoignition temperature:		Use dry chemical, CO2, water spray or "alcohol" foam Burning produces irritant fumes. None known As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear Water mist may be used to cool closed containers. Not determined Not determined				
NFPA rating:						
NFPA Health:	1					
NFPA Flammability:	1					
NFPA Reactivity:	0					

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions: Environmental precautions: Methods for cleaning up:

Use personal protective equipment. Prevent product from entering drains. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Safe handling advice: Incompatible products: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation. PERSONAL PROTECTIVE EQUIPMENT Respiratory protection: Breathing apparatus only if aerosol or dust is formed. Hand protection: Pvc or other plastic material gloves Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect. Eve protection: Sofety glopped with side shields

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Formula: Molecular weight: Melting point/range: Boiling point/range: Catalog Number: 101662 Powder C6H13NO2S 163.2 269°C (decomposes) No Data available at this time. Product name: DL-ETHIONINE Density: Vapor pressure: Evaporation rate: Vapor density: Solubility (in water): Flash point: Autoignition temperature: No data available Not determined Not determined

# **10. STABILITY AND REACTIVITY**

Stability: Polymerization: Hazardous decomposition products: Materials to avoid: Conditions to avoid: Stable under recommended storage conditions. None under normal processing. Nitrogen oxides (NOx)/ammonia/CN-, Sulphur oxides Strong oxidising agents Exposure to air or moisture over prolonged periods.

# **11. TOXICOLOGICAL INFORMATION**

Product Information Acute toxicity				
Components	RTECS Number:	Selected LD50s and LC50s		
DL-ETHIONINE	ES6825200	Not Determined		
Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.			
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.			
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.			
Primary irritation:	No data is available on the product itself.			
Carcinogenic effects:	No data is available on the product itself.			
Mutagenic effects:	No data is available or	the product itself.		
Reproductive toxicity:	No data is available or	the product itself.		

## **12. ECOLOGICAL INFORMATION**

Mobility: Bioaccumulation: Ecotoxicity effects: Aquatic toxicity:		No data available No data available No data available May cause long-term adverse effects in the aquatic environment.		
Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:	
DL-ETHIONINE	Not Listed	Not Listed	Not Listed	
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data	
DL-ETHIONINE	Not Listed	Not Listed	Not Listed	
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data	
DL-ETHIONINE	Not Listed	Not Listed	Not Listed	

Components	EPA - ATSDR Priority List			California - Priority Toxic		
DL-ETHIONINE	Not Listed	Program Che Not Listed	emical List	Pollutants Not Listed		
<b>Components</b> DL-ETHIONINE	California - Priority Toxic Pollutants Not Listed		California - Priority Toxic Pollutants Not Listed			
	13. DISPOSAL C	ONSIDERA	TIONS			
Waste from residues / unused products: Contaminated packaging:		Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous. Do not re-use empty containers				
14. TRANSPORT INFORMATION						
UN/Id No:		Not regulated				
DOT:						
Proper shipping name	<b>9</b> :	Not Regulated	Ł			
<b>Components</b> DL-ETHIONINE	U.S. DOT - Appendix A Table 1 - Reportable Quantities Not Listed					
TDG (Canada): WHMIS hazard class:		D2a very toxi	c materials			
IMDG/IMO						
IMDG - Hazard Classif	lications	Not Applicable	9			
Components	U.S. DOT - Appendix B - Ma	arine Pollutan U.S. DOT - Appendix B - Severe Marine				
DL-ETHIONINE	Not Listed	Pollutants Not Listed				
IMO-labels:						
15. REGULATORY INFORMATION						

## International Inventories

Components DL-ETHIONINE Inventory - United States TSCA - Sect. 8(b) Catalog Number: 101662

Present
Product name: DL-ETHIONINE

Canada NDSL Inventory List - Australia (AICS):		Present	C6H13NO2S		
U.S. regulations: Components DL-ETHIONINE	<b>California Proposition 65</b> - Not Listed	Massachusetts Right to Know List: Not Listed	New Jersey Right to Know List: Not Listed	<b>Pennsylvania Right to Know</b> List: Not Listed	
Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants	
DL-ETHIONINE	Not Listed	Not Listed	Not Listed	Not Listed	
Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:	
DL-ETHIONINE	Not Listed	Not Listed	None	None	
SARA 313 Notification:	<b>RA 313 Notification:</b> The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in				
	Washington, DC or Alaska).				
State Notification:	The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.				
16. OTHER INFORMATION					

#### Prepared by: Health & Safety

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#### End of Safety Data Sheet