



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Methionine (DL) EP

30-5198

### Section 1: Identification

**Product Name** Methionine (DL) EP

**Commercial Name** DL-Methionine

**Product Use** N/A

**Restrictions On Use** N/A

**Product Code** 30-5198

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Not classified as a hazardous substance or mixture

**CFR 1910.1200**

**Signal Word** NON-HAZARDOUS

**Hazard Statement(s)** May cause eye irritation. May cause skin irritation. May cause irritation of the digestive tract. May cause respiratory tract irritation. May cause reproductive and fetal effects.

**Pictogram(s) or Symbol(s)**

#### Precautionary Statement(s):

<b>Prevention</b>	N/A
<b>Response</b>	N/A
<b>Storage</b>	N/A
<b>Disposal</b>	N/A

### Section 3: Composition/Information on Ingredients

<b>Substance/Mixture</b>	Substance
<b>Components</b>	DL-Methionine
<b>% By Weight</b>	ca.100
<b>CAS#</b>	59-51-8
<b>Molecular Weight</b>	149.2
<b>Chemical Formula</b>	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub> S
<b>Synonym(s)</b>	DL-2-amino-4-(methylthio) butanoic acid

#### Mixtures

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
DL-Methinone	59-51-8	ca. 100	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid
<b>Skin Contact</b>	Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
<b>Eye Contact</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water

**Symptoms/Effects****Acute** N/A**Delayed** N/A**Immediate Medical Attention**

Treat symptomatically and supportively

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam

**Unsuitable Extinguishing Media**

N/A

**Products of Combustion**

Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion

**Firefighters Special Equipment and Precautions**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear

**Section 6: Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

**Section 7: Handling and Storage**

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	DL-Methionine; ACGIH: None listed, NIOSH: None listed, OSHA-Final PELs: None listed
<b>Engineering Controls</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low
<b>Personal Protection</b>	Eyes: 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: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure. Respirators: A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White crystalline powder		
<b>Odor</b>	None reported		
<b>Odor Threshold</b>	N/A		
<b>Melting Point</b>	281°C (dec)	<b>pH</b>	5.6-6.1
<b>Freezing Point</b>	N/A	<b>Vapor Pressure</b>	Negligible
<b>Boiling Point/Range</b>	Not available	<b>Vapor Density</b>	Not available
<b>Decomposition temperature</b>	281°C	<b>Viscosity</b>	Not available
<b>Partition Coefficient: n-octanol/water</b>	N/A	<b>Evaporation Rate</b>	Negligible
<b>Flash Point</b>	N/A	<b>Autoignition temperature</b>	N/A
<b>Flammability</b>	Flammability: 0	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available
		<b>Upper</b>	Not available
<b>Solubility(ies)</b>	Slightly soluble (3.0g/100g of water at 20°C)		
<b>Other</b>	N/A		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	N/A
<b>Chemical Stability</b>	Stable under normal temperatures and pressures
<b>Hazardous Polymerization</b>	Will not occur
<b>Conditions to Avoid</b>	Incompatible materials, dust generation, excess heat
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Section 11: Toxicological Information****RTECS** PD0456000**Acute Toxicity**

N/A

**Skin Corrosion/Irritation**

N/A

**Serious Eye Damage/Irritation**

N/A

**Respiratory or Skin Sensitization**

N/A

**Germ Cell Mutagenicity**

No information available

**Carcinogenicity**

N/A

**Reproductive Toxicity**

N/A

**Routes of Entry**

N/A

**Symptoms Related to Exposure**

N/A

**Potential Health Effects**

May cause eye irritation, May cause skin irritation. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects

**Target Organ(s)** No data found

**Section 12: Ecological Information****Ecotoxicity**

No information available

**Persistence and Degradability**

No information available

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

No information available

**Other Adverse Effects**

No information available

**Section 13: Disposal Considerations****Waste Disposal**

No information available

**Disposal of Container**

No information available

**Other Considerations**

No information available

**Section 14: Transport Information****DOT Classification**

N/A

**Section 15: Regulatory Information****Regulations**

European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: Not available Risk Phrases: Safety Phrases: S 24/25 Avoid contact with skin and eye WGK (Water Danger/Protection) CAS# 59-51-8: 0 Canada CAS# 59-51-8 is listed on Canada's DSL List Canadian WHMIS Classifications: D2A This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. CAS# 59-51-8 is not listed on Canada's Ingredient Disclosure List. US Federal TSCA CAS# 59-51-8 is listed on the TSCA Inventory Section 15 - Regulatory Information

**Other**

N/A

**Section 16: Other Information**

N/A