



SAFETY DATA SHEET

L-METHIONINE

PRODUCT# L-METHI-4965

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: L-Methionine
Synonyms: L-Methionine

Distributor: Bella Corp Trading Pty Ltd
Address: 6/34 Dominions Road, Ashmore QLD 4214, Australia
Telephone: 07 5597 4169
Email: bellacorp@bellacorp.com.au

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

<u>CAS#</u>	<u>Chemical Name</u>	<u>Percent</u>	<u>EINECS/ELINCS</u>
63-68-3	L-Methionine	ca. 100	200-562-9

SECTION III – HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: White crystals

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated. This substance has caused adverse reproductive and fetal effects in animals.

Target Organs: No data found

Potential Health Effects:

Eye: May cause skin irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: Prolonged or repeated exposure may cause adverse reproductive effects. May cause fetal effects. Laboratory experiments have resulted in mutagenic effects.

SECTION IV – FIRST AID PROCEDURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: 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 cupful of milk or water.



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Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

SECTION V – FIRE FIGHTING MEASURES

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

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

Flash Point: Not applicable.

Auto-Ignition Temperature: Not applicable

Explosion Limits, Lower: Not available

Explosion Limits, Upper: Not available

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

SECTION VI – 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 VII – 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: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: 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.

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH</u>	<u>NIOSH</u>	<u>OSHA – Final PELs</u>
L-Methionine	None listed	None listed	None listed

OSHA Vacated PELs: L-Methionine: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment:

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 EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure.



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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 respirator use.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystals
Appearance: White
Odor: Faint odor
pH: 5.6 – 6.1
Vapor Pressure: Negligible
Vapor Density: Negligible
Evaporation Rate: Negligible
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 276-279°C
Decomposition Temperature: 279°C
Solubility: Soluble
Specific Gravity: 1.340
Molecular Formula: C₅H₁₁NO₂S
Molecular Weight: 149.21

SECTION X – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

SECTION XI – TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 63-68-3: PD0457000
LD50/LC50:
CAS# 63-68-3:
Oral, rat: LD50 = 36 g/kg; <BR
Carcinogenicity:
CAS# 63-68-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65
Epidemiology: No information found
Teratogenicity: No information available
Reproductive Effects: No information available
Mutagenicity: No information available
Neurotoxicity: No information found
Other Studies:



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SECTION XII – ECOLOGICAL INFORMATION

No information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION XIV – TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Canada TDG</u>
Shipping Name:	Not regulated as a hazardous material	No information available
Hazard Class:		
UN Number:		
Packing Group:		

SECTION XV – REGULATORY INFORMATION

US FEDERAL:

TSCA:	CAS# 63-68-3 is listed on the TSCA inventory.
Health and Safety Reporting List:	None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules:	None of the chemicals in this product are under a Chemical Test Rule.
Section 12b:	None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule:	None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and Corresponding RQs:	None of the chemicals in this material have an RQ.
SARA Section 302 Extremely Hazardous Substances:	None of the chemicals in this product have a TPQ.
Section 313:	No chemicals are reportable under Section 313.
Clean Air Act:	
This material does not contain any hazardous air pollutants.	
This material does not contain any Class 1 Ozone depletors.	
This material does not contain any Class 2 Ozone depletors.	
Clean Water Act:	
None of the chemicals in this product are listed as Hazardous Substances under the CWA.	
None of the chemicals in this product are listed as Priority Pollutants under the CWA.	
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.	
OSHA:	None of the chemicals in this product are considered highly hazardous by OSHA.



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STATE:	CAS# 63-68-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
California Prop 65:	California No Significant Risk Level: None of the chemicals in this product are listed.
European/International Regulations:	
European Labeling in Accordance with EC Directives:	
Hazard Symbols:	Not available
Risk Phrases:	
Safety Phrases:	
WGK (Water Danger/Protection):	CAS# 63-68-3: 0
Canada – DSL/NDSL:	CAS# 63-68-3 is listed on Canada’s DLS List.
Canada – WHMIS:	This product has a WHMIS classification of D2A.
Canadian Ingredient Disclosure List:	

SECTION XVI – ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. User should make their own investigations to determine the suitability of the information for their particular purposes.

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