

CJ BIO Malaysia Sdn. Bhd.

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Date of issue: January 01, 2018

Revision date: January 16, 2018

		Tage for 5
1.	Chemical Product and Company I	dentification
	1.1. Identification of the substance	: L-Methionine
	1.2. Use of the substance	: Various use (drugs, nutritional, industrial)
	1.3. Company identification:	
	Manufacturer's Name	: CJ CheilJedang Corporation
	1.4. Contact for Correspondence :	
	Lot Q Kertih Bio Polymer Park Pha	ise 2
	Mukim Kertih, 24300 Kemaman,	
	Terengganu Malaysia	
	Tel N°	: +60-9-830-2454
	Emergency Phone #	: +82-2-3660-0553
2.	Composition, Information on Ingredients	
	Substance or Mixture	: Substance
	Common Chemical name	: L-Methionine
	Synonyms	: (2S)-2-Amino-4-(methylsulfanyl) butanoic acid
	Formula	: C5H11NO2S
	Molecular Weight	: 149.21
	CAS No.	: 63-68-3
	EINECS No.	: 200-562-9
	IUPAC	: L-Met
3.	Hazards Identification	
	<u>Classification</u>	: This material is not considered harzardous by OSHA Hazard
		Communication Standard(29 1910.1200)
	Potential human health effects	: Irritating to mucous membranes, eyes and skin.
	Potential environmental effects	: Will increase the biological oxygen demand (BOD) of water.



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4. First-Aid Measures

Inhalation :Immediately relocate to a fresh air environment. Rinse mouth with water. If not breathing, giveartificial respiration. If breathing becomes difficult, give oxygen and seek medical attention.Skin Contact :Wash with soap and copious amounts of water. If irritation persists, seek medical attention.Eye Contact :Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequateflushing by separating eyelids with fingers. If contact lenses are being worn, remove lenses and continue rinsing.

Seek medical attention.

Ingestion : Rinse mouth with water and seek medical attention.

5. Fire-fighting measures

Flash point (method used)	: Not known
Flammable limits	: Not known
Extinguishing media	: Water spray, carbon dioxide, dry chemical powder/foam
Special fire fighting procedures	: Minimize dust formation
Unusual fire and explosion hazards	: Fine dust dispersed in air in sufficient concentrations, and in the
	presence of an ignition source is a potential dust explosion hazard.
	Upon combustion will result in carbon monoxide, carbon dioxide and
	nitrogen oxide being released.

6. Accidental release measures

Use personal protection, see section 8.

Shovel dry material into container and dispose material in accordance with local regulations. Prevent spills from entering sewers and watercourses. Avoid dust generation. Ventilate area. After material removal, rinse spill site with water.

7. Handling and storage

7.1. Handling	: Follow good industrial practice in housekeeping and personal hygiene.	
	Wear personal protective equipment as outlined in section 8.	
7.2. Storage	: Store in closed containers in a dry area. Avoid humidity, sunlight and high temperature.	





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	Respiratory protection	: Dust mask or appropriate respirator. Utilize local exhaust ventilation.	
	Protective gloves	: Rubber	
	Eye protection	: Chemical safety goggles	
	Other protective equipment	: Wear appropriate laboratory apparel, protect exposed skin.	
	Occupational exposure limits	: Not established	
9.	Physical and chemical properties		
	Appearance	: White crystals or crystalline powder	
	Melting point	: 280-282°C (decomposes)	
	Solubility	: 4.80 g/100g H ₂ O (20°C)	
	рН	: 5.6-6.1 (0.5g in 20mL of H ₂ O)	
10.	Stability and reactivity		
	Stability	: Stable under normal temperature and pressures	
	Conditions to avoid	: Humidity and high temperature	
	Incompatibility (Materials to a	void) : Strong oxidizing agents	
	Hazardous decomposition pro	ducts : Nitrogen oxides (combustion)	
	Hazardous Polymerization	: Will not occur	
11.	Toxicological information		
	Acute oral toxicity	: LD50 > 16 g/kg rat	
	Sensitization	: No data available	
	Mutagenicity	: No data available	
	Primary skin irritation	: May cause skin irritation. No specific data available	
	Primary eye irritation	: May cause eye irritation. No specific data available	





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Toxic effects to fish, algae, and daphnia Potential for bioaccumulation Biodegradability WGK class (Europe) Disposal considerations Dispose of the material as you would with a	: No data available : No data available : BOD= 0.221g/g : 1 (group classification according to VwVwS / 17 May 1999, Germany)		
Biodegradability WGK class (Europe) Disposal considerations	: BOD= 0.221g/g		
WGK class (Europe) Disposal considerations			
Disposal considerations	: 1 (group classification according to VwVwS / 17 May 1999, Germany)		
-			
Dispose of the material as you would with	Disposal considerations		
Dispose of the material as you would with a non-hazardous material in accordance with all applicable national,			
state and local regulations.			
Transport information			
Avoid humidity and high temperature. Prevent damage of the container.			
UN-Classification	: Not classified		
US Department of Transportation proper s	hipping name : L-Methionine		
US NMFC classification	: Item 60,000 / class 70		
Not dangerous as per IATA Regulation			
Regulatory information			
None especially.			
The information given in this Material Safety Data Sheet does not replace the users own assessment of workplace			
risk as required by national, state and local health and safety legislation.			
Other information			
Contact Person/Point : Laboratory Manager +60 9 830 2454			
Research & D	Development Chemist +60 9 830 2454		
The information above is believed to be accurate and represents the best			
information currently available to us. However, we make no warranty of			
merchantibility or any other warranty, express or implied, with respect to such been			
advised of the	e possibility of such damage		
	Transport information Avoid humidity and high temperature. Prev UN-Classification US Department of Transportation proper sl US NMFC classification Not dangerous as per IATA Regulation Regulatory information None especially. The information given in this Material Safet risk as required by national, state and local Other information Contact Person/Point : Laboratory Ma Research & D The information Contact Person/Point : Laboratory Ma Research & D The information		





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