

CAS No.:

IUPAC:

EINECS No .:

SAFETY DATA SHEET:

L-CYSTINE

The information is provided as a service to our customers and is intended only for their use. This information is based on technical information believed to be reliable and will be revised as new knowledge or experience is gained.

Date of issue:	January 6, 2003	
Revision date:	August 10, 2022	Version 1
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1. Chemical Produ	ct and Company Identificati	on
1.1. Identification		
1.2. Use of the su	bstance: Various	use (drugs, nutritional, industrial)
1.3. Detail of the s	supplier of the safety data sheet	
Manufacture	's Name: Ajinomo	to Co., Inc. / Ajinomoto Health & Nutrition North America, Inc.
1.4. Contact for	Correspondence Japan:	Contact for Correspondence USA:
Ajinomoto (Ajinomoto Health & Nutrition North America, Inc.
15-1, Kyobashi 1-chome, Chuo-ku, Tokyo		4020 Ajinomoto Drive, Raleigh
104-831		N.C. 27610, U.S.A
Tel N	2: +81-(0)3-5250-8111	Tel N°: +1-800-682-0982
	°: +81-(0)3-5250-0079	Fax N°: +1-919-325-1420
Contact for Correspondence Brazil:		Contact for Correspondence Europe:
	o Brasil Indústria e Comércio	S.A. Ajinomoto Omnichem N.V.
de Alimentos Ltda.		I Axis Park, Rue Emile Francqui 7
Rua Ver	gueiro, 1737, Vila Mariana,	1435 Mont-Saint-Guibert, Belgium
)1-São Paulo- SP, Brazil	Tel N°: +32(0)10 48 31 22
	2: +55 11 5908-8778	Fax N°: +32(0)10 45 62 27
Contact for	Correspondence China:	Contact for Correspondence Asia, Oceania:
	China) Co., Ltd.	Shanghai Ajinomoto Trading Co., Ltd.
718 Rongle Dong Road, Songjiang,		718 Rongle Dong Road, Songjiang,
Shanghai 201613 P.R. China		Shanghai 201613 P.R. China
Tel N	2: +86 21 5774-5353	Tel N°: +86 21 5774-5353
Fax N	°: +86 21 5774-0433	Fax N°: +86 21 5774-0433
1.5. Emergency T	elephone:	
In continenta	U.S., Hawaii, Puerto Rico, Cana	ada, For Japan, Brazil, Europe, China and Asia refer to
Alaska and V	irgin Islands contact	section 1.4
CHEMTR	EC at 1-800-424-9300.	
2. Hazards Identific	ation	
2.1. Classification	of the substance	
Physical haz	ards: Not app	licable
Health hazar		
Environment	al hazards: Not app	licable
2.2. Label elemer Not applicabl	ts (REGULATION (EC) No.1272	
2.3. Other hazard		use eye and skin irritation.
		crease the biological oxygen demand (BOD) of water.
2 Composition In	iormation on Ingradianta	
3.1. Substance	ormation on Ingredients	
Common Ch	emical name: L-Cystin	
• • • • • • • • •		
Synonyms: Formula:		Diamino-3,3'-dithiobis (propionic acid)
	eight: C ₆ H ₁₂ N ₂ 240.30	20402
Molecular We	eight: 240.30 98.5 - 10	01 0%
Composition:	90.0 - 10 56 80 3	

56-89-3

200-296-3

L-Cys-L-Cys



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4. First-Aid Measures

- 4.1. Description of first aid measures
 - <u>Inhalation</u>: Immediately relocate to a fresh air environment. Rinse mouth with water. If not breathing, give artificial respiration. If breathing becomes difficult, give oxygen and seek medical attention. <u>Skin Contact</u>: Wash with soap and copious amounts of water. If irritation persists, seek medical attention.
 - <u>Eye Contact</u>: Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing 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.
- 4.2. Most important symptoms and effects, both acute and delayed
- 4.3. Indication of any immediate medical attention and special treatment needed No information available

5. Fire-fighting measures

- 5.1. Extinguishing media
 - Water spray, carbon dioxide, dry chemical powder/foam
- 5.2. Special hazards arising from the substance or mixture 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.
- 5.3. Advice for fire-fighting
 - No information available

6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures Use personal protection, Make spills wet to prevent the generation of dust and then, sweep up into a closed container.
- 6.2. Environmental precautions
 - Do not discharge into sewer, river, underground water, etc.
- 6.3. Methods and material for containment and cleaning up
- After recovering, wash away spilled area with plenty of water. 6.4. Reference to other sections
 - Personal protection: see section 8

7. Handling and storage

- 7.1. Precautions for safe handling
 - Follow good industrial practice in housekeeping and personal hygiene. Wear personal protective equipment as outlined in section 8.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store in closed containers in a dry area. Avoid humidity, sunlight and high temperature.

8. Exposure controls/personal protection

- 8.1. Control parameters
 - Contains no substance with occupational exposure limit value.
- 8.2. Exposure controls
 Respiratory protection:
 Dust mask or appropriate respirator. Utilize local exhaust ventilation.

 Protective gloves:
 Bust mask or appropriate respirator. Utilize local exhaust ventilation.

 Eye protection:
 Chemical safety goggles.

 Other protective equipment:
 Wear appropriate laboratory apparel, protect exposed skin.

 Not established
 Not established



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 Physical and chemical proper 9.1. Information on basic physical 	
Appearance:	White crystals or crystalline powder
Melting point:	260 - 261°C (decomposes)
Solubility:	0.009 g / 100 g H ₂ O (20°C)
pH:	$5.0 - 6.5 (0.02 \text{ g in } 50 \text{ mL of } \text{H}_2\text{O})$
9.2. Other data	
No data available	
0. Stability and reactivity	
10.1. Reactivity	
	eral to flammable organic substances and mixtures; in correspondingly fine
· · ·	a dust explosion potential may generally be assumed.
10.2. Chemical stability	
Stable under normal tempera	
10.3. Possibility of hazardous read	
Nitrogen oxides (combustion	1)
10.4. Conditions to avoid	
	ure. In presence of moisture, will oxidize and darken.
10.5. Incompatibility materials	
Strong oxidizing agents	
10.6. Hazardous decomposition p	
Nitrogen oxides (combustion	1)
1. Toxicological information	
11.1. Information on toxicological	effects
0	
Acute oral toxicity: Sensitization:	LD₅₀ : 25 g/kg rat No data available
Mutagenicity:	No data available May saysa akin irritation. Na anasifia data ayailabla
Primary skin irritation:	May cause skin irritation. No specific data available
Primary eye irritation:	May cause eye irritation. No specific data available
2. Ecological information	
12.1. Toxicity	
No data available	
12.2. Persistence and degradabilit	hv
BOD = 0.93 g/g (for L-Cyste	
12.3. Bio accumulative potential	
No data available	
12.4. Mobility in soil	
· · · · · · · · · · · · · · · · · · ·	
No data available	accoment
12.5. Results of PBT and vPvB as	not available as chemical safety assessment not required/not conducted.
	not available as chemical salety assessment not required/not conducted.
12.6. Other adverse effects WGK class (Europe): 1 (grou	up classification according to VwVwS / 17 May 1999, Germany)
3. Disposal considerations	
	uld with a non-hazardous material in accordance with all applicable national,
state and local regulations.	
4. Transport information	
	ure. Prevent damage of the container.
	gerous in meaning of transport regulations.
14.7. Transport in Bulk according	to Annex II of MARPOL 73/78 and the IBC code.



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15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture *EU regulations*

Major Accident Hazard	96/82/EC
Legislation	Directive 96/82/EC does not apply
Regulation (EC) No.1005/2009 on substances that deplete the ozone layer	not regulated
Regulation (EC) No.850/2004 of the European Parliament and of the Council of 29 April 2004 on Directive 79/117/EEC	not regulated
Regulation (EC) No.689/2008 concerning the export and import of dangerous chemicals.	not regulated
Substance of very high concern (SVHC)	This product does not contain substance of very high concern above the respective regulatory limit (> 0.1% (w/w) Regulation (EC) No.1907/2006 (REACH), Article 57).

Other National Legislation

None especially.

The information given in this Safety Data Sheet does not replace the users own assessment of workplace risk as required by national, state and local health and safety legislation.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other information

The information contained in this SDS is, to the best of our knowledge true and accurate. Any recommendations or suggestions made are without guarantee, since the conditions of use are beyond our control.