# SAFETY DATA SHEET

Creation Date 21-Jan-2015 Revision Date 21-Jan-2015 **Revision Number** 1 1. Identification **Product Name** L-Cysteine (+)-2-Amino-3-mercaptopropionic acid; CySH **Synonyms Recommended Use** Cosmetic manufacturing / professional use only. Uses advised against No Information available Details of the supplier of the safety data sheet **Emergency Telephone Number** Company Chanjao Longevity Co., Ltd. +66 02 002 7 002 50 Ramindra 14, Bangkok 10230 THAILAND +66 02 002 7 002 care@myskinrecipes.com

2. Hazard(s) identification

Category 4

Category 2

Category 2

Category 3

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



## Precautionary Statements

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Storage

Store in a well-ventilated place. Keep container tightly closed

#### Store locked up

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

### 3. Composition / information on ingredients

Component	CAS-No	Weight %
L-Cysteine	52-90-4	> 99
	1 First-aid measures	

	4. Filst-alu measules
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically
	5 Fire-fighting measures

 S. FILE-HIGHTING MEdia

 Suitable Extinguishing Media

 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Sulfur oxides

#### **Protective Equipment and Precautions for Firefighters**

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

NFPA Health 2	Flammability 1	Instability 1	Physical hazards N/A				
	6. Accidental rel	ease measures					
Personal Precautions	Use personal protective eq Avoid contact with skin, eye	uipment. Ensure adequate vent	tilation. Avoid dust formation.				
<b>Environmental Precautions</b>	Avoid release to the environ						
Methods for Containment and Cl Up	lean Sweep up or vacuum up sp formation.	illage and collect in suitable co	ntainer for disposal. Avoid dust				
	7. Handling a	and storage					
Handling		quipment. Ensure adequate ve es and clothing. Avoid ingestion					
Storage	Keep in a dry place. Keep o	container tightly closed. Keep u	nder nitrogen. Keep refrigerated.				
8.	Exposure controls /						
Exposure Guidelines	This product does not conta established by the region s		th occupational exposure limits				
Engineering Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations				
Personal Protective Equipment							
Eye/face Protection		e eyeglasses or chemical safet oction regulations in 29 CFR 19					
Skin and body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.				
Respiratory Protection	EN 149. Use a NIOSH/MSI	r regulations found in 29 CFR 1 HA or European Standard EN 1 ed or if irritation or other sympto					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.						

	9. Physical and chemical properties
Physical State	Powder Solid
Appearance	White
Odor	Characteristics
Odor Threshold	No information available
рН	4.5-5.5
Melting Point/Range	220 °C / 428 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	4.2
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C3 H7 N O2 S
Molecular Weight	121.15

## 9. Physical and chemical properties

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Air sensitive.			
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides				
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

# Product Information

Componen	t	LD50 Oral LD50 Dermal LC5				Inhalation			
L-Cysteine		1890 mg/kg (Rat)	1	Not listed	Not listed				
Toxicologically Syn	ergistic	No information ava	o information available						
Products									
Delayed and immed	iate effects as	well as chronic effe	cts from short ar	d long-term expo	osure				
Innitation		Irritation to avec r	opiratory ovators	and alkin					
Irritation		Irritating to eyes, re	espiratory system	and skin					
Sensitization		No information available							
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient a	as a carcinoge			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
L-Cysteine	52-90-4	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							

**Reproductive Effects** 

No information available.

Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and	No information available
delayed Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12 Ecological informatic

	12. Ecological information
<u>Ecotoxicity</u> Do not empty into drains.	
Persistence and Degradability Bioaccumulation/ Accumulation	No information available No information available.
Mobility	No information available.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
L-Cysteine	Х	Х	-	200-158-2	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

**SARA 313** 

Not applicable

SARA 311/312 Hazardous Categor Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard	Yes No No			
Clean Water Act	Not applicable			
Clean Air Act	Not applicable			
<b>OSHA</b> Occupational Safety and Hea Not applicable	alth Administration			
CERCLA Not applicable				
California Proposition 65	This product does not contain any Proposition 65 chemicals			
State Right-to-Know	Not applicable			
U.S. Department of Transportation	n			
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N			
<b>U.S. Department of Homeland Sec</b> This product does not contain any D				
Other International Regulations				
Mexico - Grade	No information available			
Canada This product has been classified i the MSDS contains all the informa	in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and ation required by the CPR			
WHMIS Hazard Class	D1B Toxic materials D2B Toxic materials			

16. Other information

Prepared By

Chanjao Longevity Co., Ltd.

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#### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

material or in any process, unless specified in the text.

End of SDS