SAFETY DATA SHEET



L-CYSTEINE HCL MONOHYDRATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	7048-04-6
EC number:	200-157-7
1.2 SYNONYMS:	L-Cysteine Hydrochloride Cysteine Hydrochloride
	Cysteine Hydrochloride
	Cysteine HCl
	Cysteine Monohydrate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 No data available
Hazard Pictograms:	No data available
Signal Word:	No data available
Hazard statements:	no data available
Precautionary Statements:	P264: Wash hands thoroughly after handling. P280: Wear protective gloves and eye protection if handling large quantities.
YOUR CHEMI	P305 + P351 + P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant.



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2.3 Other hazards:	
Inhalation:	may cause respiratory irritation, but
	it is not typically considered a
	significant inhalation hazard under
	normal handling conditions.
Ingestion:	in large amounts may cause
-51	gastrointestinal irritation, but it is
	generally not considered toxic at
	typical consumption levels.
Skin Contact:	unlikely to cause significant
	irritation, though prolonged or
	repeated exposure may cause mild
	irritation in sensitive individuals.
Eye contact:	may cause mild irritation, resulting
	in redness or discomfort, but it is not
	typically considered a serious
	hazard.
Chronic Exposure:	Chronic exposure to L-Cysteine HCl
	Monohydrate is unlikely to pose
	significant health risks at typical
	exposure levels, though prolonged
	or excessive exposure may
	potentially lead to skin or respiratory
	irritation in sensitive individuals.
Aggravation of pre-existing	Aggravation of pre-existing
conditions:	conditions, such as respiratory
	disorders or skin sensitivities, may
	occur with prolonged or repeated
	exposure to L-Cysteine HCl
	Monohydrate, especially in
	individuals with asthma or
	dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 7048-04-6
	L-CYSTEINE HCL MONOHYDRATE
Identification number(s):	EC number: 200-157-7



SECTION 4: First aid measures

4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms include mild irritation of the skin, eyes, or respiratory system, while delayed effects are unlikely under normal handling conditions.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, Carbon dioxide dry powder
5.2 Special hazards arising from the substance or mixture:	Carbon oxides, hydrogen chloride gas, Nitrogen oxides, sulphur oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.



5.4 further information:	no data available
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SECTION 6: Accidental release measures

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.
6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
	return in its original container.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate
YOUR CHEMI	ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.



7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area. Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
LOID	leaks. Store in a dry and dark area.
	Keep away from moisture.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
measures:	maintain indoor air unobstructed.
VOUD OUENU	Wear protective equipment.
A II II R I : H F WI	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
	inspected prior to use. Use proper
	glove removal technique (without
	touching glove's outer surface) to
	avoid skin contact with this
	product. Dispose of contaminated
	gloves after use in accordance with



	applicable laws. Wash and dry
	hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	
and chemical properties	
General Information	
Appearance: Form:	Crystalline powder
Colour:	White to off white
Odour:	Odourless or faint color
pH-value:	5
Melting point/Melting range:	190°C
Boiling point/Boiling range:	Not determined
Flammability (solid, gaseous):	Non-Flammable
Ignition temperature:	Not determined
Decomposition temperature:	190°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	No
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	1.4 g/cm ³
Relative density:	1.4
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with-	Soluble – –
·water at 20 °C:	OALIAHIHLI
Partition coefficient:(n-	Not determined
octanol/water)	
Viscosity:	Not applicable



SECTION 10: Stability and reactivity

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	This chemical is stable under
	storage conditions.
10.3 Possibility of hazardous	No data available
reactions	
10.4 Conditions to avoid	Excessive heat.
10.5 Incompatible materials	Strong oxidizing agents, acids and
	bases.
10.6 Hazardous decomposition	May release sulphur dioxide upon
products	decomposition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 2.000 mg/kg
	LD50 (Dermal, Rabbit): 2.000
	mg/kg
	LC50 (Inhalation Rat): no data
	available
Skin corrosion/Irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	No data available
repeated exposure:	L, VI D V B I VI F F
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3



11.2 Additional toxicological	
information	
Biodegradability:	Readily biodegradable

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 100 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): 100 mg/l (48 hr)
	ErC50(algae): 83 mg/l (72 hr)
12.2 Persistence and	Readily biodegradable
degradability:	
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Low mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, mild detergents, PH neutral solutions.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	Not applicable
IMDG, IATA:	
14.2 UN proper shipping name ·	Not applicable
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	Not applicable
ADR, ADN, IMDG, IATA :	$C \times I = D \times D \times D \times I = D$
14.4 Packing group · ADR, IMDG,	Not applicable
IATA:	
14.5 Environmental hazards:	None
14.6 Special precautions for user:	Handle responsibly.



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific	Directive 2012/18/EU, under that this substance is not classified in listed substances
for the substance or mixture Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
-5111	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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