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Product Code : 14040

1. Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier Trade name : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE) Product code** : 14040 **Identification of the product** : L-Cysteine Hydrochloride (Monohydrate) CAS No: 7048-04-6 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only. **1.3.** Details of the supplier of the safety data sheet **Company identification** : MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503 **1.4. Emergency telephone number** Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm). 2. Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Serious eye damage/eye irritation, H319 Category 2 Skin corrosion/irritation, H315 Category 2 Specific target organ toxicity — Single exposure, H335 Category 3, Respiratory tract irritation Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Adverse physicochemical, human health and environmental effects No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display Hazard pictograms :

Signal word : Warning

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Hazard statements : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

Precautionary statements : P261 - Avoid breathing vapours, spray, dust, fume, gas. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No additional information available

3. Composition/information on ingredients

3.1. Substances : L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE) FOR BIOCHEMISTRY

CAS-No.: 7048-04-6

Substance.

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

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No additional information available

5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

8. Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

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Respiratory protection : [In case of inadequate ventilation] wear respiratory protection. 9. Physical and chemical properties

9. Physical and chemical properties	
9.1. Information on basic physical and chemical properties Odour threshold : No data available	
pH: 1-2 Relative eveneration rate (hutula state=1) : No data available	
Relative evaporation rate (butylacetate=1) : No data available	
Melting point : 176 °C	
Freezing point : No data available	
Boiling point : No data available	
Flash point : No data available	
Auto-ignition temperature : No data available	
Decomposition temperature : No data available	
Flammability (solid, gas) : No data available	
Vapour pressure : No data available	
Relative vapour density at 20 °C : No data available	
Relative density : No data available	
Solubility : Water: 100 g/l at 25 °C	
Log Pow : No data available	
Viscosity, kinematic : No data available	
Viscosity, dynamic : No data available	
Explosive properties : No data available	
Oxidising properties : No data available	
Explosive limits : No data available	
9.2. Other information	
No additional information available	
10. Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Air contact. Direct sunlight. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	

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No additional information available

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

pH: 1 - 2

Serious eye damage/irritation : Causes serious eye irritation.

pH: 1 - 2

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

12. Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

<u>13. Disposal considerations</u>

13.1. Waste treatment methods

No additional information available

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN **14.1. UN number** UN-No. (ADR) : Not applicable

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UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RID) : Not applicable 14.2. UN proper shipping name Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) **ADR-** Transport hazard class(es) (ADR) : Not applicable **IMDG-** Transport hazard class(es) (IMDG) : Not applicable **IATA-** Transport hazard class(es) (IATA) : Not applicable ADN- Transport hazard class(es) (ADN) : Not applicable **RID-** Transport hazard class(es) (RID) : Not applicable 14.4. Packing group Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable Packing group (IATA) : Not applicable Packing group (ADN) : Not applicable Packing group (RID) : Not applicable 14.5. Environmental hazards Dangerous for the environment : No Marine pollutant : No Other information : No supplementary information available 14.6. Special precautions for user **Overland transport-** No data available Transport by sea- No data available Air transport- No data available **Inland waterway transport-** No data available Rail transport- No data available 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable 15. Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

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No REACH Annex XVII restrictions L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE) is not on the REACH Candidate List L-CYSTEINE HYDROCHLORIDE (MONOHYDRATE) is not on the REACH Annex XIV List 15.1.2. National regulations Germany Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV; ID No. 6704) 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Netherlands SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen -Vruchtbaarheid : The substance is not listed NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed Denmark Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product 15.2. Chemical safety assessment No additional information available **16. Other information** Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was

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End of document Prepared by: MOLYCHEM (INDIA)

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