



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 43101
Product Name : **L-CYSTEINE**

Manufacturer / supplier identification
Company : NICE Chemicals (P) Ltd. , Cochin , India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

EC-No. : 200-158-2 Molar Mass : 121.16
CAS-No : 52-90-4 Molecular Formula: $C_3H_7NO_2S$

3. HAZARDS IDENTIFICATION : Harmful if swallowed.

4. FIRST AID MEASURES : After inhalation : Fresh air.
After skin contact : Wash off with plenty of water. Remove
contaminated clothing.
After eye contact : Rinse out with plenty of water
with eyelids held open. Summon eye specialist.
After swallowing : Induce vomiting. Make victim drink plenty of
water. Summon doctor.

5. FIRE – FIGHTING MEASURES : Suitable extinguishing media: powder ,foam, water, CO₂
Special risks: Combustible. Development of hazardous combustion
gases or vapours possible in the event of fire.
The following may develop in the event of fire :
nitrous gases, sulfur oxides.



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6. ACCIDENTAL RELEASE MEASURES : Person related precautionary measures :
Avoid generation of dusts ; do not inhale dusts.
Procedures for cleaning / absorption : Take up dry.
Forward for disposal. Clean up affected area.

7. HANDLING AND STORAGE : Handling : No further requirements
Storage : Tightly closed. Dry. Protected from light ,
At +15⁰C to +25⁰C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required

Industrial hygiene : Change contaminated clothing. Application of skin protective barrier cream recommended. Wash hands after working with substance. Under no circumstances eat or drink at work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid
Colour : White
Odour : Characteristic
Melting temperature : ~ 220-228 °C
Boiling temperature : Not available
pH value : 4.5-5.5
Ignition temperature : Not available
Flash point : Not available
Explosion limits lower : Not available
Upper : Not available



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Relative vapour density : Not available
Density (20⁰ C) : Not available
Solubility in water (20⁰C) : Freely soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating
Substance to be avoided : No information available.
Hazardous decomposition products : In the event of fire :
Nitrous gases, sulfur oxides.
Further information : Antioxidant.

11. TOXICOLOGICAL INFORMATION : Acute Toxicity : LD₅₀(oral, rat) : 1890 mg/kg

Further toxicological information :
After swallowing : After absorption of toxic quantities : drowsiness,
depressed respiration, ataxia (impaired locomotor coordination).

Other notes: this is a nonessential amino acid that occurs in many
forms in natural protein.

After eye contact : No irritation

After skin contact : No irritation

Further data : The product should be handled with the care usual when
dealing with chemicals. However when the product is handled and used with
due care and attention.

12. ECOLOGICAL INFORMATION : Ecotoxic effects : Quantitative data on the ecological
effect of this product are not available.



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Further ecologic data : No ecological problems are to be expected when the product is handled and used with due care and attention.

13. DISPOSAL METHOD : There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through

corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste .

Disposal in compliance with official regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently , non – contaminated packaging may be treated like household waste or recycled

14. TRANSPORT INFORMATION : Not subject to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
R- Phrases : 22 Harmful if swallowed.
S-phrases : ---

Water pollution class : 1 (slightly polluting substance)



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16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
