

L-CYSTINE FOR BIOCHEMISTRY

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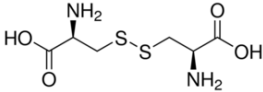
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: 03145

□□□□□□: 4/9/2014 □□□□□□: 12/13/2024 □□□□: 5/25/2016 □□: 1.0

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1.1. □□□□

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□□ □□ : L-CYSTINE FOR BIOCHEMISTRY
EC □□ : 200-296-3
CAS □□ : 56-89-3
□□ □□ : 03145
□□ □□ : Organic compound
□□ □□ : C₆H₁₂N₂O₄S₂
□□ □□ :

□□ □□ : (R,R)-3,3'-Dithiobis(2-aminopropionic acid)

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ : Industrial
□□/□□□ □□ □□ : For professional use only
□□□□/□□□□ □□ : Laboratory chemicals
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1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
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1.4. □□□□□□

□□ □□ □□ : + 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP] □□ □□

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To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

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2.3. □□ □□

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

L-CYSTINE FOR BIOCHEMISTRY

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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6.1. □□□ □□□□ □□ □□□ □□□□ □□□□

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- □□□
- □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel.
- □□□□
- □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□□. □□□ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
- □□ : Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
- □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

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7.1. □□□□□□

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- : Ensure good ventilation of the work station. □□ □□□□ □□□□□□. □□ □ □□□□ □□□□□□. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.
- □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□ □ □□ □□ □□□□□□. □□□ □□□ □□□□□□.
- : Store always product in container of same material as original container.

7.3. □□ □□ □□

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8.1. □□ □□ □□

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8.2. □□□□

- □□□ □□
- □□□ □□ : Ensure good ventilation of the work station.

L-CYSTINE FOR BIOCHEMISTRY

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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□□ □□□:

Wear recommended personal protective equipment.

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Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

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Protective gloves

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Wear appropriate mask

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9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	: □□
□□	: White to off white.
□□	: Powder.
□□□	: 240.3 g/mol
□□	: characteristic.
□□ □□	: □□□□
□□□	: > 240 °C
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□□□□ □□	: 286 °C
□□ □□	: □□□□
pH	: □□□□
pH □□	: □□□□
□□(□□□)	: □□□□
□□□	: □: 0.122 g/l at 20 °C - Soluble in water
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: Negligible
50°C□□□ □□□	: □□□□
□□	: 1.66 g/cm ³ at 20 °C
□□	: □□□□
20°C□□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □ □□ □□□□

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L-CYSTINE FOR BIOCHEMISTRY

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□ 10: □□□ □ □□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

Air contact. □□□□. Moisture.

10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □ □□□, □□□ □□□ □□ □□

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L-CYSTINE FOR BIOCHEMISTRY (56-89-3)

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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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12.2. □□□ □ □□□

L-CYSTINE FOR BIOCHEMISTRY (56-89-3)

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L-CYSTINE FOR BIOCHEMISTRY

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.3. □□ □□□

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12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

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- : Disposal must be done according to official regulations.
- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : Disposal must be done according to official regulations.
- : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
- : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

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14.2. UN □□ □□□

□□ □□□ (ADR)

: Not regulated

□□ □□□ (IMDG)

: Not regulated

□□ □□□ (IATA)

: Not regulated

□□ □□□ (ADN)

: Not regulated

□□ □□□ (RID)

: Not regulated

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)

: Not regulated

IMDG

□□□□□ □□□ □□ (IMDG)

: Not regulated

IATA

□□□□□ □□□ □□ (IATA)

: Not regulated

ADN

□□□□□ □□□ □□ (ADN)

: Not regulated

RID

□□□□□ □□□ □□ (RID)

: Not regulated

L-CYSTINE FOR BIOCHEMISTRY

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VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□(12. BImSchV) : □□ □□ □□(12. BImSchV)□ □□ □□ □□

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SZW-lijst van kankerverwekkende stoffen : □□□ □□

SZW-lijst van mutagene stoffen : □□□ □□

SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□

SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

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1.2	□□□□/□□□□ □□	□□
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4.1	First-aid measures for first aider	□□
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L-CYSTINE FOR BIOCHEMISTRY

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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9	□□	□□
9.1	Explosive limits (vol %)	□□
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10.2	□□□ □□□	□□
10.3	□□ □□□ □□□	□□
10.6	□□□ □□□□ □□□□	□□
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13.1	□□□ □□□	□□
13.1	□□/□□ □□ □□□□	□□
13.1	□□ □□ □□ □□	□□
13.1	□□ □□	□□
13.1	□□ □□(□□□)	□□
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16	□□ □ □□□□	□□

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ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

□□□□□□□□(SDS), EU

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