

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7

Product Code: 00308

Molecular Formula: $C_6H_8O_6$

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7



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

1.1. Product identifier

Product form	:	Substance
Trade name	:	L-ascorbic Acid 99.5% AR For biochemistry
EC no	:	200-066-2
CAS No	:	50-81-7
Synonyms	:	Antiscorbutic factor / L-Threoascorbic acid / Vitamin C
REACH authorisation exemptions	:	Exempted from REACH registration

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7



3.1. Substance

Name	:	L-ascorbic Acid 99.5% AR For Biochemistry
CAS No	:	50-81-7
EC no	:	200-066-2

Full text of R- and H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 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.
First-aid measures after skin contact	:	Wash with plenty of water/....
First-aid measures after eye contact	:	Rinse immediately with plenty of water.
First-aid measures after ingestion	:	Rinse mouth.

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

No additional information available

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

Treat symptomatically.

SECTION 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

No additional information available

5.3. Advice for firefighter

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

SECTION 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.
----------------------	---	--

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7

possible.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Avoid contact with skin and eyes. Avoid dust formation.
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	:	Store in a well-ventilated place. Keep container tightly closed.
--------------------	---	--

7.3. Specific end use(s)

No additional information available

SECTION 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
Respiratory protection	:	[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Molecular mass	:	176.12 g/mol
Colour	:	White crystalline.
Odour	:	odourless
Odour threshold	:	No data available
pH	:	1 - 2.5
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	190 - 194 °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

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7

Relative density	:	No data available
Density	:	1.65 g/cm ³
Solubility	:	Water: 176 g/l at 20 °C – completely soluble
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

SECTION 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

Direct sunlight. Air contact. Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
pH	:	1 – 2.5
Serious eye damage/irritation	:	Not classified
pH	:	1 – 2.5
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified

SECTION 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1. UN number

UN-No. (ADR)	:	Not applicable
UN-No. (IMDG)	:	Not applicable
UN-No.(IATA)	:	Not applicable
UN-No.(AND)	:	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

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7



AND

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

L-ascorbic Acid 99.5% AR For Biochemistry is not on the REACH Candidate List

L-ascorbic Acid 99.5% AR For Biochemistry 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. 737)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

L-ASCORBIC ACID 99.5% AR FOR BIOCHEMISTRY

CAS-No.: 50-81-7



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 :	The substance is not listed
voortplanting giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de :	The substance is not listed
voortplanting giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de :	The substance is not listed
voortplanting giftige stoffen – Ontwikkeling	

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

Version: 2.0
Revision Date: 03 January 2026