# Material Safety Data Sheet L-ASCORBIC ACID LR (Vitamin C) VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02 Product Code: 12480 Page 1 of 7

#### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : L-ASCORBIC ACID LR

**Product code** : 12480

**Identification of the product** : L-Ascorbic acid

**CAS No** :50-81-7

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

Identified uses : Laboratory chemicals, Manufacture of substances

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 -DSD

#### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. May form explosible dust-air mixture if dispersed.

## 3. Composition/information on ingredients

3.1 Substances

Synonyms : Antiscorbutic factor

L-Threoascorbic acid

Vitamin C

Formula : C6H8O6

Molecular weight : 176,12 g/mol

CAS-No. : 50-81-7

EC-No. : 200-066-2

No components need to be disclosed according to the applicable regulations.

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#### 4. First aid measures

# 4.1. Description of first aid measures

#### If inhaled

After inhalation: fresh air. **In case of skin contact** 

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/

shower.

In case of eve contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### 5. Fire-fighting measures

## 5.1. Extinguishing media

# Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

#### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2. Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### **5.3.** Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

#### **5.4 Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

# 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

# 6.2. Environmental precautions

Do not let product enter drains.

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## 6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **6.4.** Reference to other sections

For disposal see section 13.

## 7. Handling and storage

# 7.1. Precautions for safe handling

For precautions see section 2.2.

# 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Tightly closed. Dry.

Light sensitive.

# 7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection**: Avoid all unnecessary exposure.

- **Respiratory protection**: Wear approved mask.
- Hand protection : Wear protective gloves.
- Eve protection : Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

# 8.2. Control parameters

Occupational Exposure Limits: No data available.

#### 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

a) Appearance
b) Odor
c) Odor Threshold
d) pH
Form: solid
No data available
No data available
No data available

e) Melting point/range: 190 - 194 °C

point/freezing point

f) Initial boiling point

No data available

and boiling range

g) Flash point No data available h) Evaporation rate No data available

i) Flammability May form combustible dust concentrations in air.

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(solid, gas)

j) Upper/lower No data available

flammability or explosive limits

k) Vapor pressure

l) Vapor density

m) Density

Relative density

n) Water solubility

o) Partition coefficient:

No data available

No data available

No data available

No data available

n-octanol/water

p) Autoignition temperatureq) Decomposition temperatureNo data availableNo data available

r) Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

s) Explosive properties No data available t) Oxidizing properties No data available

9.2. Other information

No data available

## 10. Stability and reactivity

#### 10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed..

#### 10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

# 10.3. Possibility of hazardous reactions

Violent reactions possible with:

Aluminum Copper alloys

Zinc

metal ions

Oxidizing agents

Copper

Acids

bases

#### 10.4. Conditions to avoid

Light.

no information available

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# 10.5. Incompatible materials

no information available

# 10.6. Hazardous decomposition products

In the event of fire: see section 5.

#### 11. Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified Skin corrosion/irritation : Not classified pH: 1 - 2.5

рп. 1 - 2.3

Serious eye damage/irritation : Not classified

pH: 1 - 2.5

Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
: Not classified
: Not classified
: Not classified
: Not classified

## 12. Ecological information

12.1. Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 1.020 mg/l - 96 h

(OECD Test Guideline 203)

Remarks: acidic

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 360 mg/l - 48 h

and other aquatic Remarks: (External MSDS)

invertebrates

Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - 1.750 mg/l - 72

h Remarks: (External MSDS)

Toxicity to bacteria EC50 - Pseudomonas putida - 140 mg/l - 16 h Remarks:

(External MSDS)

12.2. Persistence - degradability

Biodegradability Result: 97 % - Readily eliminated from water

(OECD Test Guideline 302B)

Ratio BOD/ThBOD 65 %

Remarks: Closed Bottle test(own results)

Ratio BOD/ThBOD 48 %

Remarks: Closed Bottle test(own results)

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## 12.3. Bioaccumulative potential

No data available

# 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6. Other adverse effects

Discharge into the environment must be avoided.

#### 13. Disposal considerations

## 13.1. Waste treatment methods

No additional information available

#### 14. Transport information

14.1. UN number

ADR/RID: - IMDG: - IATA: -

14.2. UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

**14.3.** Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

**Further information** 

Not classified as dangerous in the meaning of transport regulations.

#### 15. Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture** This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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#### 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.

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#### **End of document**

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