

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation L-Ascorbic acid Product No. PRD5549

Substance name L-Ascorbic acid

CAS No. 50-81-7

INDEX no.

REACH registration No. exempt

other means of identification Acidum ascorbicum

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

Relevant identified uses for laboratory use and chemical production.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Better Equipped,

Wrenbury Business Park,

Wrenbury Road,

Wrenbury,

Nantwich, Cheshire, CW5 8EB, UK

Telephone +44 (0) 800 9707142 Fax +44 (0) 800 066 4443

E-mail address sales@betterequipped.co.uk

1.4 Emergency telephone

Telephone +44 (0)1270 781238

- 2. Hazards identification
- 2.1 Classification of the substance or mixture
- 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

This substance is not classified as dangerous according to regulation (EC) 1272/2008 [CLP].

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to 67/548/EEC.

#### 2.2 Label elements

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

not applicable

Signal word not applicable

Hazard Statements not applicable

Precautionary statements not applicable

## 2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

not applicable

R-phrases not applicable

S-phrases not applicable

## 2.3 Other hazards

SVHC

# 3. Composition/ Information on ingredients

Molecular formula C6H8O6
Molecular weight (g/mol) 176.13 g/mol
CAS No. 50-81-7
EC No 200-066-2

INDEX no.

## 4. First-aid measures

## 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### 4.2 After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### 4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

## 4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

## 4.5 After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting. Give nothing to eat or drink.

## 4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.7 Information to physician:

Symptoms No data available
Hazards No data available
Treatment No data available

## Firefighting measures

#### 5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2 Extinguishing media which must not be used for safety reasons:

no restriction

# 5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide Sulphur oxides

## 5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

## 5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product. In case of major fire and large quantities: Remove persons to safety. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Discharge into the environment must be avoided.

## 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Take up carefully when dry. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

Clear spills immediately.

# 7. Handling and storage

## 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation. skin contact eye contact. Usual measures for fire prevention. Handle under (Gas): Protective gas, dry.

## 7.2 Conditions for safe storage, including any incompatibilities

storage temperature

15-25°C

Keep container tightly closed in a cool, well-ventilated place.

## 7.3 Specific end use(s)

No data available

## 8. Exposure controls / Personal protection

## 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### 8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### 8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

#### 8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

## 8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,12 mm

Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-0998

By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material 0,38 mm
Breakthrough time (maximum wearing time) >480 min

Recommended glove articles VWR 112-3717 / 112-1381

### 8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 8.3.4 Respiratory protection

Usually no personal respirative protection necessary.

Suitable respiratory protection apparatus:

Recommendation

No data available

Suitable material:

No data available

Recommendation

No data available

No data available

## 8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

#### 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state solid Colour white

(b) Odour No data available (c) Odour threshold No data available

## Safety relevant basic data

(d) pH
No data available
(e) Melting point/freezing point
190 to 192 °C
(f) Initial boiling point and boiling range
553°C (1013 hPa)
(g) Flash point
No data available
(h) Evaporation rate
No data available
(i) Flammability (solid, gas)
not applicable

(j) Upper/lower flammability or explosive limits

Lower explosion limit (Vol-%)
Upper explosion limit (Vol-%)
No data available
No data available
(k) Vapour pressure
No data available
(l) Vapour density
No data available
(m) Relative density
1.694 g/cm³ (20°C)

(n) Solubility(ies)

Water solubility (g/l) 330 g/l (25°C)

at °C:

Soluble (g/l) in No data available

(o) Partition coefficient: n-octanol/water -2.11

(p) Auto-ignition temperature(q) Decomposition temperatureNo data availableNo data available

(r) Viscosity

Kinematic viscosity
Dynamic viscosity
No data available
No data available
not applicable
(t) Oxidising properties
No data available
not applicable

### 9.2 Other information

Bulk density

refraction index

No data available
dissociation constant

No data available
Surface tension

No data available
Henry constant

No data available
No data available

## 10. Stability and reactivity

## 10.1 Reactivity

No data available

## 10.2 Chemical stability

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

No data available	
10.4 Conditions to avoid	
No data available	
10.5 Incompatible materials	
No data available	
10.6 Hazardous decomposition products	
No data available	
10.7 Additional information	
No data available	
11. Toxicological information	
11.1 Information on toxicological effects	
Acute effects	
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Aguta and taxiaity	
Acute oral toxicity	
Effective dose	No data available
Effective dose species:	No data available No data available
Effective dose species: Exposure time	
Effective dose species: Exposure time remark	
Effective dose species: Exposure time	
Effective dose species: Exposure time remark	
Effective dose species: Exposure time remark source	
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Effective dose species: Exposure time remark source  Acute dermal toxicity Effective dose species: Exposure time remark source  Acute inhalation toxicity Effective dose species: Exposure time remark source	No data available  No data available  No data available  No data available

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Primary irritation to the skin

Exposure time species: Result	
Irritation to eyes Exposure time species: Result	
Irritation to respiratory tract Exposure time species: Result	
Sensitisation In case of skin contact After inhalation	not sensitising.
Specific target organ toxicity (single exposure)	
not relevant	
Specific target organ toxicity (repeated exposure)	
not relevant	
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
Carcinogenicity	
No indication of human carcinogenicity.	
Germ cell mutagenicity/Genotoxicity	
No indications of human germ cell mutagenicity exist.	
Reproductive toxicity	
No indications of human reproductive toxicity exist.	
Aspiration hazard	
not relevant	

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11.2 Other adverse effects

No data available

No data available

## 12. Ecological information

## 12.1 Ecotoxicity

## Acute (short-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

# Chronic (long-term) fish toxicity

LC50: No data available

EC50 species: Exposure time

#### Acute (short-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

## Chronic (long-term) daphnia toxicity

LC50: No data available

EC50 species: Exposure time

## Acute (short-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

# Chronic (long-term) algae toxicity

LC50: No data available

EC50 species: Exposure time

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

(o) Partition coefficient: n-octanol/water -2.11

## 12.4 Mobility in soil

No data available

12.5 Results of PBT assessment	
No data available	
12.6 Other adverse effects	
No data available	
13. Disposal considerations	
13.1 Waste treatment methods	
Appropriate disposal / Product	
Dispose according to legislation. Consult the appropriate	local waste disposal expert about waste disposal.
Waste code product	No data available
Appropriate disposal / Package	
13.2 Additional information	
No data available	
14. Transport information	
14.1 Land transport (ADR/RID)	
No dangerous good in sense of these transport regulations.	
14.2 Sea transport (IMDG)	
No dangerous good in sense of these transport regulations.	
14.3 Air transport (ICAO-TI / IATA-DGR)	
No dangerous good in sense of these transport regulations.	
14.4 Additional information	
No data available	
15. Regulatory information	
15.1 Safety, health and environmental regulations/legislation	a chaoifia for the substance or mixture

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Water hazard class (WGK)

## 15.2 Chemical Safety Assessment

No data available

#### 16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

not applicable

not applicable

16.2 Additional information

Indication of changes

general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.