

## L-Ascorbic acid

Safety Data Sheet

A0602

Version: 2.0

according to Regulation (EU) 2015/830

Supersedes 02/08/2011

Date of issue: 22/04/2011 Revision date 14/06/2018

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

#### 1.1. Product identifier

Product form : Substance

Trade name : L-Ascorbic acid

EC-No. : 200-066-2

CAS-No. : 50-81-7

Product code : A0602

Formula : C6H8O6

Synonyms : Vitamin C

L-Threoascorbic acid

Product group : Raw material

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

#### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended

only for "in vitro laboratory" research purposes.

### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

### **Supplier**

Duchefa Biochemie B.V.
A. Hofmanweg 71
2031 BH Haarlem - The Netherlands
T +31(0)23-5319093 - F +31(0)23-5318027
info@duchefa.nl

### 1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world	http://apps.who.int/poisoncentres/	Consult website for a local poison centre
directory of poison centres		

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Not classified

### Adverse physicochemical, human health and environmental effects

No additional information available

L-Ascorbic acid A0602

## Safety Data Sheet

according to Regulation (EU) 2015/830

#### 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**

#### 3.1. Substances

Name : L-Ascorbic acid

CAS-No. : 50-81-7 EC-No. : 200-066-2

Name	Product identifier	%
L-Ascorbic acid	(CAS-No.) 50-81-7	>= 99
	(EC-No.) 200-066-2	

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Seek medical attention if ill effect develops.

First-aid measures after inhalation : Move to fresh air.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : Rinse with water.

First-aid measures after ingestion : Rinse mouth out with water.

### 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

No additional information available

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam.

Dry chemical powder. Carbon dioxide (CO2).

Water spray.

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

Hazardous decomposition products in : Under fire conditions, hazardous fumes will be present

case of fire - C

- COx - NOx.

 14/06/2018 Duchefa Biochemie B.V.
 EN (English)
 SDS Ref.: A0602
 2/7

### Safety Data Sheet

according to Regulation (EU) 2015/830

### 5.3. Advice for firefighters

Protection during firefighting : Wear proper protective equipment.

## **SECTION 6: Accidental release measures**

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

General measures : Wear suitable protective clothing.

### 6.1.1. For non-emergency personnel

No additional information available

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Do not allow to enter drains or water courses.

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

Methods for cleaning up : Dispose in a safe manner in accordance with local/national regulations.

Sweep up dry powder and dispose properly.

### 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 : Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at ambient temperature

Store in dry, well-ventilated area Light and moisturer sensitive

Keep container tightly closed and dry.

## 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

#### Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

### Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

### Skin and body protection:

Wear suitable protective clothing

### Safety Data Sheet

according to Regulation (EU) 2015/830

### Respiratory protection:

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder.

Molecular mass : 176,1 g/mol

Colour : White.

Odour : No data available

Odour threshold : No data available

pH : 1 - 2,5 (176 g/l, 25 °C)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 191 °C

: No data available Freezing point **Boiling point** : No data available Flash point : No data available : No data available Auto-ignition temperature 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 Relative density : No data available Density : 0,95 g/ml (20 °C) Solubility : Water: 333 g/l (20 °C)

Log Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: No data availableExplosive limits: No data available

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

This product is not hazardous.

### 10.4. Conditions to avoid

Moisture.

### Safety Data Sheet

according to Regulation (EU) 2015/830

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- COx.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

L-Ascorbic acid (50-81-7)	
LD50 oral rat	11900 mg/kg
LD50 oral	3367 mg/kg (mouse)

Skin corrosion/irritation : Not classified

pH: 1 - 2,5 (176 g/l, 25 °C)

Serious eye damage/irritation : Not classified

pH: 1 - 2,5 (176 g/l, 25 °C)

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : See actual entry in RTECS for complete information: CI7650000.

## **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

Additional information : Prevent entry to sewers and public waters. Avoid release to the environment

## L-Ascorbic acid

Safety Data Sheet

according to Regulation (EU) 2015/830

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

## **SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA	
14.1. UN number			
Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name	14.2. UN proper shipping name		
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	
14.4. Packing group			
Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	
No supplementary information available			

### 14.6. Special precautions for user

### . Overland transport

Not regulated

### - Transport by sea

Not regulated

### - Air transport

Not regulated

## 14.7. Transport in bulk according to Annex II of Marpol 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 is not on the REACH Candidate List

L-Ascorbic acid is not on the REACH Annex XIV List

### 15.1.2. National regulations

Ensure all national/local regulations are observed.

## Germany

## L-Ascorbic acid

### Safety Data Sheet

according to Regulation (EU) 2015/830

Reference to AwSV : Water hazard class (WGK) 1, low

hazard to waters (Classification according to VwVwS, Annex 1 or 2;

ID No. 737)

12th Ordinance Implementing the Federal Immission Control Act -

12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen -

Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: The substance is not listed : The substance is not listed

: The substance is not listed

: The substance is not listed

: The substance is not listed

### **Chemical safety assessment**

No additional information available

### **SECTION 16: Other information**

### Indication of changes:

1.4	Emergency number	Modified	
8.2	Hand protection	Modified	Specified material, thickness, et
			cetera of gloves

### Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: ECHA (European Chemicals Agency). Manufacturer.

### SDS Biochemicals version 2018

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

14/06/2018 Duchefa Biochemie B.V. EN (English) SDS Ref.: A0602 7/7