

### Safety Data Sheet acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

#### 1 Identification

- **Product identifier**
- **Trade name:** **KP119 - Ascorbic Acid**
- **Catalogue number:**  
56Z011998, 56P011920, 56U011920, 56P011972, 56P011910, 56P011950, 56P011905, 56U011905, 56P011915, 56P0119, 56P011904, 56U011904, 56U011910
- **CAS Number:**  
50-81-7
- **Application of the substance / the mixture:** Reagent for water analysis
- **Manufacturer/Supplier:**  
Tintometer Inc.  
6456 Parkland Drive  
Sarasota, FL 34243  
USA  
phone: (941) 756-6410  
fax: (941) 727-9654  
www.lovibond.us  
Made in Germany
- **Emergency telephone number:** + 1 866 928 0789 (English, French, Spanish)

#### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The substance is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** none
- **Hazard pictograms** none
- **Signal word** none
- **Hazard statements** none
- **Other hazards** No further relevant information available.

#### 3 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Description**  
50-81-7 ascorbic acid
- **Identification number(s)**
- **EC number:** 200-066-2

#### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink 1-2 glasses of water.  
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**  
after swallowing of large amounts:  
general feeling of sickness  
gastric or intestinal disorders

(Contd. on page 2)

US

# Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

**Trade name: KP119 - Ascorbic Acid**

(Contd. of page 1)

diarrhoea

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Water, Carbon dioxide (CO<sub>2</sub>), Foam, Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents:**  
For this substance / mixture no limitations of extinguishing agents are given.
- **Special hazards arising from the substance or mixture**  
Can burn in fire.  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:** Avoid inhalation of dust.
- **Advice for emergency responders:** Protective equipment: see section 8
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Pick up mechanically.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
- **Advice on safe handling:** No special precautions are necessary if used correctly.
- **Hygiene measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.  
Do not eat, drink or smoke when using this product.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Protect from exposure to the light.  
Store in dry conditions.  
Protect from humidity and water.  
This product is hygroscopic.
- **Recommended storage temperature:** 20°C +/- 5°C (approx. 68°F)
- **Specific end use(s)** No further relevant information available.

US

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

Trade name: KP119 - Ascorbic Acid

(Contd. of page 2)

### 8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Engineering measures:**  
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.  
See item 7.
- **Personal protective equipment:**
- **Breathing equipment:** Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P1
- **Protection of hands:**  
Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.11$  mm
- **Penetration time of glove material**  
Value for the permeation: Level  $\leq 1$  (10 min)  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**  
Safety glasses  
use against the effects of fumes / dust
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment:**  
Do not allow product to reach sewage system or any water course.

### 9 Physical and chemical properties

• <b>Information on basic physical and chemical properties</b>	
• <b>Appearance:</b>	
Form / Physical state:	Powder
Color:	White
• <b>Odor:</b>	Odorless
• <b>Odor threshold:</b>	Not applicable.
• <b>pH-value (50 g/l) at 20°C (68°F):</b>	2.2 - 2.5
• <b>Melting point/freezing point:</b>	190-192°C (374–377.6°F)
• <b>Initial boiling point and boiling range:</b>	Not applicable. Decomposition
• <b>Flash point:</b>	Not applicable.
• <b>Flammability (solid, gas):</b>	May form combustible dust concentrations in air.
• <b>Ignition temperature:</b>	380°C (716°F)
• <b>Decomposition temperature:</b>	> 192°C (>377.6°F)
• <b>Auto-ignition temperature:</b>	Not determined.
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.
• <b>Flammability or explosive limits:</b>	
Lower:	Not applicable.
Upper:	Not applicable.
• <b>Oxidizing properties:</b>	none
• <b>Vapor Pressure:</b>	Not applicable.
• <b>Density at 20°C (68°F):</b>	1.65 g/cm <sup>3</sup> (13.77 lbs/gal)
• <b>Relative density:</b>	Not determined.
• <b>Vapor density:</b>	Not applicable.
• <b>Evaporation rate:</b>	Not applicable.

(Contd. on page 4)

US

# Safety Data Sheet

## acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

Trade name: KP119 - Ascorbic Acid

(Contd. of page 3)

• <b>Solubility(ies)</b> Water at 20°C (68°F):	333 g/l
• <b>Partition coefficient (n-octanol/water):</b>	Not applicable.
• <b>Viscosity:</b>	Not applicable.
• <b>Organic solvents:</b>	0.0 %
• <b>Solids content:</b>	100.0 %
• <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** Dust can combine with air to form an explosive mixture.
- **Chemical stability**  
Stable at ambient temperature (room temperature).  
sensitive to moisture  
sensitivity to light  
sensitive to air
- **Possibility of hazardous reactions** Aqueous solution reacts acidic.
- **Conditions to avoid** Strong heating (decomposition)
- **Incompatible materials:** aluminum, copper, zinc, metal ions
- **Hazardous decomposition products:** see section 5

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

### • LD/LC50 values that are relevant for classification:

CAS: 50-81-7 ascorbic acid

Oral	LD50	11900 mg/kg (rat) (RTECS)
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- **Primary irritant effect:**
- **on the skin:** Based on available data, the classification criteria are not met.
- **on the eye:** Based on available data, the classification criteria are not met.

### • Information on components:

CAS: 50-81-7 ascorbic acid

Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: slight irritation)

- **Sensitization:** Based on available data, the classification criteria are not met.

### • Carcinogenic categories

#### • IARC (International Agency for Research on Cancer)

Substance is not listed.

#### • NTP (National Toxicology Program)

Substance is not listed.

#### • OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

- **Other information:** see section 8 / 15

### • Synergistic Products: None

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.
- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.

(Contd. on page 5)

# Safety Data Sheet

## acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

Trade name: KP119 - Ascorbic Acid

(Contd. of page 4)

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 50-81-7 ascorbic acid

EC50 360 mg/l/48h (Daphnia magna)

IC50 1750 mg/l/72h (Desmodesmus subspicatus)

LC50 1020 mg/l/96h (rainbow trout) (OECD 203)

- **Bacterial toxicity:**

CAS: 50-81-7 ascorbic acid

EC50 140 mg/l (Pseudomonas putida) (16h)

- **Persistence and degradability**

Easily eliminable from water.

CAS: 50-81-7 ascorbic acid

OECD 302 B 97 % / 5 d (readily eliminated from water) (Zahn-Wellens / EMPA Test)

- **Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow &lt; 1 = Does not accumulate in organisms.

CAS: 50-81-7 ascorbic acid

log Pow -2.15 (.)

- **Mobility in soil** No further relevant information available.

- **Other adverse effects** Avoid transfer into the environment.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **UN-Number**

- **DOT, IMDG, IATA**

none

- **UN proper shipping name**

- **DOT, IMDG, IATA**

none

- **Transport hazard class(es)**

- **DOT, IMDG, IATA**

- **Class**

none

- **Packing group**

- **DOT, IMDG, IATA**

none

- **Environmental hazards:**

Not applicable.

- **Special precautions for user**

Not applicable.

(Contd. on page 6)

# Safety Data Sheet

## acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

Trade name: KP119 - Ascorbic Acid

(Contd. of page 5)

- |  |  |
|--|--|
| • <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| • <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

• <b>Section 355 (Extremely hazardous substances):</b>
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Substance is not listed.
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• <b>Section 313 (Specific toxic chemical listings):</b>
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Substance is not listed.
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• <b>TSCA (Toxic Substances Control Act):</b>
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Substance is listed.
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• <b>Proposition 65</b>
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• <b>Chemicals known to cause cancer:</b>
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Substance is not listed.
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• <b>Chemicals known to cause reproductive toxicity for females:</b>
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Substance is not listed.
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• <b>Chemicals known to cause reproductive toxicity for males:</b>
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Substance is not listed.
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• <b>Chemicals known to cause developmental toxicity:</b>
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Substance is not listed.
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• <b>New Jersey Right-to-Know List:</b>
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Substance is not listed.
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• <b>New Jersey Special Hazardous Substance List:</b>
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Substance is not listed.
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• <b>Pennsylvania Right-to-Know List:</b>
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Substance is not listed.
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• <b>Pennsylvania Special Hazardous Substance List:</b>
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Substance is not listed.
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• <b>EPA (Environmental Protection Agency)</b>
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Substance is not listed.
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• <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
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Substance is not listed.
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- **Information about limitation of use:** Not required.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 05/16/2018 / 1

- **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development  
 STOT: specific target organ toxicity  
 SE: single exposure  
 RE: repeated exposure  
 EC50: half maximal effective concentration  
 IC50: half maximal inhibitory concentration  
 NOEL or NOEC: No Observed Effect Level or Concentration  
 ACGIH® - American Conference of Governmental Industrial Hygienists  
 •A1 - Confirmed human carcinogen  
 •A2 - Suspected human carcinogen  
 •A3 - Confirmed animal carcinogen with unknown relevance to humans  
 •A4 - Not classifiable as a human carcinogen

(Contd. on page 7)

# Safety Data Sheet

## acc. to OSHA HCS (HazCom 2012)

Printing date 05/16/2018

Reviewed on 05/16/2018

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**Trade name: KP119 - Ascorbic Acid**

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(Contd. of page 6)

•A5 - Not suspected as a human carcinogen

IARC - International Agency for Research on Cancer

•Group 1 - Carcinogenic to humans

•Group 2A - Probably carcinogenic to humans

•Group 2B - Possibly carcinogenic to humans

•Group 3 - Not classifiable as to carcinogenicity to humans

•Group 4 - Probably not carcinogenic to humans

NTP - National Toxicology Program, U.S. Department of Health and Human Services

•Group K - Known to be Human Carcinogens

•Group R - Reasonably Anticipated to be Human Carcinogens

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

**• Sources**

Data arise from safety data sheets, reference works and literature.

RTECS (Registry of Toxic Effects of Chemical Substances )

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