

Version: 1.1 Revision Date: 09-21-2018

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

1. Identification

Product identifier: Ascorbic acid

Other means of identification CAS No.: 50-81-7

#### **Recommended restrictions**

**Recommended use:** For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

Details of the supplier of the safety data sheet

Company Name Address	Quality Environmental Containers, Inc. 607 Industrial Park Road Beaver, WV 25813
Telephone	Customer Service: 304-255-3900
E-mail:	info@qecusa.com

#### **Emergency telephone number:**

CHEMTREC: 1-800-424-9300 within US and Canada

Not classified	
No symbol	
No signal word.	
Not applicable	
Not applicable	
None.	
	No signal word. Not applicable Not applicable

Substances

Composition Comments:	The components are not hazardous or are below required disclosure limits.	
4. First-aid measures		
General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center. Get medical attention if symptoms occur.	
Inhalation:	Call a physician or poison control center immediately. Move to fresh air. Apply artificial respiration if victim is not breathing If breathing is difficult, give oxygen.	
Skin Contact:	Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.	
Most important symptoms/effect	ts, acute and delayed	
Symptoms:	May cause irritation to skin, eyes, and respiratory tract.	
Hazards:	No information about adverse effects due to exposure.	
Indication of immediate medical attention and special treatment needed		
<b>_</b>		
Treatment:	Symptoms may be delayed. Treat symptomatically.	
	Symptoms may be delayed. I reat symptomatically.	
5. Fire-fighting measures General Fire Hazards:	Symptoms may be delayed. Treat symptomatically. The product is non-combustible. No unusual fire or explosion hazards noted.	
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5. Fire-fighting measures General Fire Hazards: Suitable (and unsuitable) exting Suitable extinguishing	The product is non-combustible. No unusual fire or explosion hazards noted.	
<ul> <li>5. Fire-fighting measures</li> <li>General Fire Hazards:</li> <li>Suitable (and unsuitable) exting</li> <li>Suitable extinguishing</li> <li>media:</li> <li>Unsuitable extinguishing</li> </ul>	The product is non-combustible. No unusual fire or explosion hazards noted. uishing media Use fire-extinguishing media appropriate for surrounding materials.	
<ul> <li>5. Fire-fighting measures</li> <li>General Fire Hazards:</li> <li>Suitable (and unsuitable) exting</li> <li>Suitable extinguishing media:</li> <li>Unsuitable extinguishing media:</li> <li>Specific hazards arising from</li> </ul>	The product is non-combustible. No unusual fire or explosion hazards noted. uishing media Use fire-extinguishing media appropriate for surrounding materials. No data available. None known.	
<ul> <li>5. Fire-fighting measures</li> <li>General Fire Hazards:</li> <li>Suitable (and unsuitable) exting</li> <li>Suitable extinguishing media:</li> <li>Unsuitable extinguishing media:</li> <li>Specific hazards arising from the chemical:</li> </ul>	The product is non-combustible. No unusual fire or explosion hazards noted. uishing media Use fire-extinguishing media appropriate for surrounding materials. No data available. None known.	

6. Accidental release measure	25	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal. Sweep up and place in a clearly labeled container for chemical waste.	
Notification Procedures:	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.	
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.	
7. Handling and storage		
Precautions for safe handling:	Do not get in eyes. Wash hands thoroughly after handling. Do not get in eyes, on skin, on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not taste or swallow. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. See Section 8 of the SDS for Personal Protective Equipment. Do not eat, drink or smoke when using the product. Wash at the end of each work shift and before eating, smoking and using the toilet.	
Conditions for safe storage, including any incompatibilities:	Store locked up.	
8. Exposure controls/personal protection		
Control Parameters		
Occupational Exposure Limi	ts None of the components have assigned exposure limits.	
Appropriate Engineering Controls	No special requirements under ordinary conditions of use and with adequate ventilation.	
Individual protection measures,	such as personal protective equipment	

# Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield. Use personal protective equipment as required.
Skin Protection Hand Protection:	Chemical resistant gloves
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional

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	or manufacturer for spec	fic information. Wear suitable protective clothing.
Respiratory Protection:	recommended exposure	o not maintain airborne concentrations below limits (where applicable) or to an acceptable level sure limits have not been established), an be worn.
Hygiene measures:	contaminated clothing be skin. Wash hands before	rve good industrial hygiene practices. Wash fore reuse. Do not get this material in contact with breaks and immediately after handling the c or smoke when using the product.

# 9. Physical and chemical properties

#### Appearance

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Physical state:	Solid
Form:	Crystals or powder
Color:	White to slightly yellow
Odor:	Odorless
Odor threshold:	No data available.
pH:	3 (5 g/l, 20 °C) 2 (50 g/l, 20 °C)
Melting point/freezing point:	190 °C
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosiv	e limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	0.01 kPa (192.15 °C)
Vapor density:	No data available.
Density:	1.65 g/ml (20 °C)
Relative density:	1.65 (20 °C)
Solubility(ies)	
Solubility in water:	330 g/l (20 °C)
Solubility (other):	absolute ethanol: 0.02 g/ml
	propylene glycol: 0.05 g/ml
	USP glycerol: 0.01 g/ml chloroform: Insoluble
	ether: Insoluble
	petroleum ether: Insoluble
Partition coefficient (n-octanol/water):	-1.85
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	176.12 g/mol (C6H8O6)
10 Stability and reactivity	

# 10. Stability and reactivity

No dangerous reaction known under conditions of normal use.

Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	No special precautions.
Incompatible Materials:	Strong oxidizing agents. Alkalies. Iron. Copper.
Hazardous Decomposition Products:	Not determined.

# 11. Toxicological information

nformation on likely routes of exposure Inhalation: No adverse effects are expected.	
Skin Contact:	No adverse effects are expected.
Eye contact:	None known or expected under normal use.
Ingestion:	No adverse effects due to ingestion are expected.

#### Information on toxicological effects

Acute toxicity (list all possib	ole routes of exposure)
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Oral Product:	LD 50 (Rat): 11,900 mg/kg
Dermal Product:	No data available.
Inhalation Product:	No data available.
Repeated dose toxicity Product:	None known.
Skin Corrosion/Irritation Product:	Not known.
Serious Eye Damage/Eye Irritation Product:	on Not known.
Respiratory or Skin Sensitization           Product:         Not a skin nor a respiratory sensitizer.	
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified	
US. National Toxicology Program	n (NTP) Report on Carcinogens:

No carcinogenic components identified

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

Germ Cell Mutagenicity		
In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive toxicity Product:	No components toxic to reproduction	
Specific Target Organ Toxicity - Product:	Single Exposure None known.	
Specific Target Organ Toxicity - Repeated Exposure Product: None known.		
Aspiration Hazard Product:	Not classified	

Other effects: None known.

### 12. Ecological information

### Ecotoxicity:

Acute hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	Not determined.

Bioaccumulative potential Bioconcentration Factor (Bo Product:	CF) Not known.	
Partition Coefficient n-octanol / v Product:	water (log Kow) Log Kow: -1.85	
Mobility in soil:	The product is water soluble and may spread in water systems.	
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
13. Disposal considerations		
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.	
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.	

#### 14. Transport information

#### DOT

Not regulated.

#### IMDG

Not regulated.

#### ΙΑΤΑ

Not regulated.

#### 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Not listed.

# SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities. L-Ascorbic acid 10000 lbs.

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None present or none present in regulated guantities.

#### **US State Regulations**

- US. California Proposition 65 No ingredient regulated by CA Prop 65 present.
- US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.
- US. Massachusetts RTK Substance List No ingredient regulated by MA Right-to-Know Law present.
- US. Pennsylvania RTK Hazardous Substances No ingredient regulated by PA Right-to-Know Law present.

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### Kyoto protocol

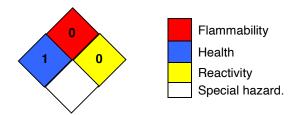
Not applicable

#### **Inventory Status:**

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Mexico INSQ: Taiwan Chemical Substance Inventory: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory

## 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	09-21-2018
<b>Revision Information:</b>	Not relevant.
Version #:	11
Source of information:	Sources of information used in preparing this SDS included one or more of the following results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.
Further Information:	No data available.
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