

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

1.1. Product Identifier

Product name : Bovi-C
Product code : 6994
Product form : Mixture

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

Intended use : Animal feed nutritional supplement
Uses advised against : None identified

1.3. Details of the supplier of the safety data sheet

QualiTech, LLC. Phone: 1-800-328-5870
318 Lake Hazeltine Drive Web: qualitechco.com
Chaska, MN 55318

1.4. Emergency telephone number

Emergency number : Infotrack (800) 535-5053

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not a hazardous substance or mixture

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Hazard statement (GHS-US) : H303 May be harmful if swallowed
H313 May be harmful in contact with skin
H320 Causes eye irritation
H335 May cause respiratory irritation

Signal word (GHS-US) : **Warning**

Precautionary statements (GHS-US) : P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P261 Avoid breathing dust/fume/ gas/mist/vapours/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing

P312	Call a POISON CENTER/doctor/physician if you feel unwell
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse
P403+P233	Store in a well-ventilated place. Keep container tightly closed
P501	Dispose of contents/container to comply with local, state and federal regulations

2.3. Other Hazards

Other hazards not contributing to the classification : None under normal conditions

2.4. Unknown acute toxicity (GHS-US) : No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	CAS #	%
Ascorbic Acid	50-81-7	80-90
Vegetable-based Lipids	No data available	10-20

Specific chemical identity(ies) and/or exact percentage(s) of composition may be withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. Supply oxygen if necessary.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

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

Symptoms/injuries after inhalation	: May cause respiratory irritation
Symptoms/injuries after skin contact	: May cause skin irritation
Symptoms/injuries after eye contact	: May cause eye irritation
Symptoms/injuries after ingestion	: May cause nausea

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

Call physician and Poison Control Center if adverse conditions appear.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream (jet)

5.2. Special hazards arising from the substance or mixture

Fire hazard	: May be combustible at high temperature
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Explosion hazard : Dust explosion hazard
Reactivity : No data available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering the environment.
Protection during firefighting : Do not enter area without proper protective equipment, including respiratory protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid raising and breathing dust, provide adequate ventilation. Dispose of material in accordance with all applicable municipal, state, and federal regulations

6.1.1 For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Dust mask
Emergency procedures : Evacuate unnecessary personnel

6.1.2 For emergency responders

Protective equipment : Equip clean up crew with proper protection
Emergency procedures : Ventilate area

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Restrict access to area of spill. Prevent entry into water.
Methods for cleaning up : Use appropriate tools to put spilled solid in a conventional waste disposal container

6.4. Reference to other sections : See heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Provide good ventilation in process area to prevent formation of excessive dust. Avoid breathing dust. Use only outdoors or in

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep container in a cool, dry, well-ventilated area.
Incompatible products : Strong oxidizers. Strong acids.
Incompatible materials or conditions : Aluminium, copper, zinc, iron, etc.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

L-Ascorbic Acid (50-81-7)

NIOSH REL, TWA (mg/m ³)	Not established
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OSHA PEL, TWA (mg/m ³)	Not established
NIOSH IDLH (mg/m ³)	Not established

8.2. Exposure Controls

- Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash fountain and safety showers should be immediately available.
- Personal protective equipment : Avoid all unnecessary exposure.



- Hand protection : Wear protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : Do not eat, drink, or smoke during use.

SECTION 9: Physical and chemical properties

- Physical state : Solid
- Appearance : Powdered solid
- Molecular mass : No data available
- Color : White, may have pink hues
- Odor : Odorless
- Odor Threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : No data available
- Relative vapor density at 20°C : No data available
- Density : No data available
- Solubility : No data available
- Log Pow : No data available
- Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : No data available
- Oxidizing properties : No data available
- Explosive limits : No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7)

10.3. Possibility of hazardous reactions

Reacts with acid.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not classified

L-Ascorbic Acid (50-81-7)	LD50 oral rat, 11900
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Skin corrosion/irritation : May cause mild skin irritation

Serious eye damage/irritation : May cause mild eye irritation

Respirator or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation

Specific target organ toxicity (repeated exposure) : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation

Symptoms/injuries after skin contact : Mild irritation

Symptoms/injuries after eye contact : Mild irritation

Symptoms/injuries after ingestion : May cause diarrhea

Likely routes of exposure : Inhalation; skin and eye contact

Chronic symptoms : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data 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. Other adverse effects

No additional information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste disposal recommendations : Dispose of product in accordance with all applicable laws and regulations.
 Ecology - waste materials : Avoid release to the environment

SECTION 14: Transport information

In accordance with DOT
 Not a dangerous good in sense of transport regulations (US)

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Transport by air

No additional information available

SECTION 15: Regulatory information**15.1. US Federal regulations**

L-Ascorbic Acid (50-81-7)

TSCA	Listed on the United States Toxic Substances Act (TSCA) inventory
Section 302 (EHS) TPQ	Does not contain any components with a SARA 302 RQ.
Section 304 (EHS) RQ	Does not contain any components with a section 304 EHS RQ.
CERCLA RQ	Does not contain any components with a CERCLA RQ.
Section 313	Reporting thresholds not exceeded.

15.2. International regulations

L-Ascorbic Acid (50-81-7)

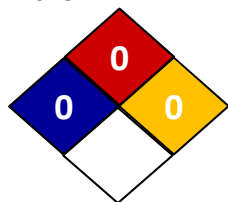
Canada	All components of this product are on the Canadian Domestic Substances List (DSL)
European Union	No additional information available.
Australia	On the AICS or in compliance with the inventory.
China	On the inventory (IECSC) or in compliance with the inventory.
Other	No additional information available.

15.3. US State Regulations

No additional information available.

SECTION 16: Other information

Other information : None
 NFPA/HMIS :



Health	0
Fire	0
Reactivity	0
Personal Protection	E

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall QualiTech, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even is QualiTech, Inc. has been advised of the possibility of such damages