



Ascorbic Acid Safety Data Sheet

Effective date: April 7, 2016

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: Ascorbic Acid, Vitamin C

Product number: Not applicable.

REACH NO.: Not applicable.

CAS-No.: 50-81-7

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

Identified uses: Food and Feed Additive or API.

1.3 Details of the supplier of the safety data sheet:

Company : Level 7 Chemical

Address: 255 Sturgis Rd
Conway, AR 72034
(855) 927-1777

Website: www.level7chemical.com

1.4 Emergency telephone number:

Chemtrec: (800) 424-9300

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

Not a hazardous substance or mixture.

This substance is not classified as dangerous.

2.2 Label element: Not applicable.

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2.3 Other hazard: No particular hazards known.

Section 3 Composition/Information on Ingredients

3.1 Substances

Synonyms: Vitamin C; L-Ascorbic acid; (5R)-5-[(1S)-1,2-dihydroxyethyl]-3,4-dihydroxyfuran-2(5H)-one

CAS number: 50-81-7

EINECS number: 200-066-2

Formula: C₆H₈O₆

Molecular mass: 176.12 g/mol

No components need to be disclosed according to the applicable regulations.

Section 4 First-aid Measures

4.1 Description of first aid measures:

Eye contact: Rinse immediately with tap water for 10 minutes - open eyelids forcibly.

Skin contact: Remove contaminated clothes; wash affected skin with water and soap; do not use any solvents.

Inhalation: Remove the casualty to fresh air and keep him/her calm; in the event of symptoms get medical treatment.

Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labeling(see section 2.2) and /or in section 11.

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

Not applicable.

Section 5 Fire-fighting Measures

5.1 Extinguishing media:

Suitable extinguishing media: Water spray jet, dry powder, foam, carbon dioxide.

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5.2 Special hazards arising from the substance or mixture: Severe dust explosion hazard.

5.3 Advice for fire-fighters: Precipitate gases/vapors/mists with water spray.

5.4 Additional information: Not applicable.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions: Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

Sweep up and shove. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a non-metallic and sealed container, keep in a dry place and away from light.

7.3 Specific end uses:

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters: Components with workplace control parameters.

8.2 Exposure controls:

8.2.1 Appropriate engineering measures: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended

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exposure limits.

8.2.2 Personal protective equipment:

Respiratory protection: In case of high dust concentrations: particle mask or respirator with independent air supply.

Skin protection:

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection: Protective gloves (e.g. made of natural rubber).

Other skin protection measures: Suitable skin protection.

Eye/ Face protection: Safety glasses.

8.2.3 Environmental exposure controls: Do not let product enter drains.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

- a) **Appearance:** A white or almost white, crystalline powder or colorless crystals.
- b) **Odor:** Almost odorless, with sharp acidic, pleasant taste.
- c) **Odor Threshold:** Not applicable.
- d) **pH:** 2.1-2.6 (5 % aqueous solution).
- e) **Melting point/freezing point:** About 190°C (with decomposition).
- f) **Initial boiling point and boiling range:** Not applicable.
- g) **Flash point:** Not applicable.
- h) **Evapouration rate:** Not applicable.
- i) **Flammability (solid, gas):** Not applicable.
- j) **Upper/lower flammability or explosive limits:** Not applicable.
- k) **Vapour pressure:** Not applicable.
- l) **Vapour density:** Not applicable.

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- m) **Relative density:** Not applicable.
- n) **Water solubility:** Free soluble in water.
- o) **Partition coefficient:** Not applicable.
- p) **Auto-ignition temperature:** Not applicable.
- q) **Decomposition temperature:** Not applicable.
- r) **Viscosity:** Not applicable.
- s) **Explosive properties:** Not applicable.
- t) **Oxidizing properties:** Not applicable.

9.2 Other safety information: Not applicable.

Section 10 Stability and Reactivity

10.1 **Reactivity:** Not applicable.

10.2 **Chemical Stability:** Stable at room temperature under exclusion of humidity.

10.3 **Possibility of hazardous reactions:** Not applicable.

10.4 **Conditions to avoid:** Humidity; warming.

10.5 **Incompatible materials:** Oxidizing agents, atmospheric oxygen, bases, metals, metal salts.

10.6 **Hazardous decomposition products:**

Other decomposition products - Not applicable.

In the event of fire: see section 5.

Section 11 Toxicological Information

11.1 **Information on toxicological effects:**

Acute toxicity: LD50 11'900 mg/kg (oral, rat)

LD50 8'000 mg/kg (oral, mouse)

Skin corrosion/irritation: Not applicable.

Serious eye damage/eye irritation: Not applicable.

Respiratory or skin sensitization: Not applicable.

Germ cell mutagenicity: Not applicable.

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Carcinogenicity: Not carcinogenic (several species)

Reproductive toxicity: Not teratogenic, not embryo toxic

Specific target organ toxicity - single exposure: Not applicable.

Specific target organ toxicity - repeated exposure: Not applicable.

Aspiration hazard: Not applicable.

Additional Information: None.

Section 12 Ecological Information

12.1 Toxicity: Not applicable.

12.2 Persistence and degradability: Not applicable.

12.3 Bioaccumulative potential: Not applicable.

12.4 Mobility in soil: Not applicable.

12.5 Results of PBT and vPvB assessment: Not applicable.

12.6 Other adverse effects: Not applicable.

Section 13 Disposal Considerations

13.1 Waste treatment methods:

Product: Observe local/national regulations regarding waste disposal; drain very small quantities into wastewater treatment plant; large amounts: incinerate in qualified installation.

Contaminated packaging: Dispose of as unused product.

Section 14 Transport Information

14.1 UN number:

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

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IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user: Not applicable.

Section 15 Regulatory Information

No classification and labeling according to EU directives; this product is on the European Inventory of Existing Commercial Chemical Substances.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Not applicable.

15.2 Chemical Safety Assessment:

For this product a chemical safety assessment was not carried out

Section 16 Other Information

Further information:

Use: Additive for use in food and pharmaceuticals; feed additive.

Biological activity: 1 I.U. (international unit) of vitamin C corresponds to the activity of 50

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µg of pure ascorbic acid.

Reference literature: ISO11014-1; General rules for preparation of chemical safety data sheet (CSDS); CLP Regulation (EC).

The information in this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.