



Material Safety Data Sheet

Sodium Ascorbate MSDS

Effective date: May 28, 2014

Section 1 Product and Company Identification

Product name: Sodium Ascorbate

Company information:

Name: CSPC Weisheng Pharmaceutical (Shijiazhuang) Co., Ltd.

Add: No.236 Huanghe Street High-Tech Industrial Development Zone, Shijiazhuang, China.

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Section 2 Hazards Identification

Classification: Not applicable.

Label element: Not applicable.

Hazard description: No particular hazards known.

Potential acute health effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Section 3 Composition/Information on Ingredients

Characterization: Water soluble vitamin; pharmaceuticals, food and feed additive.

CAS number: 134-03-2

EINECS number: 205-126-1

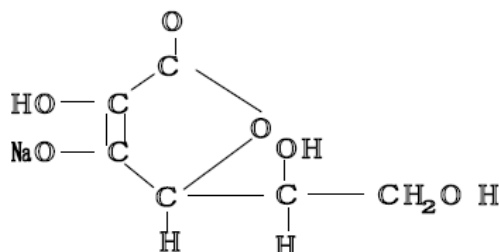
Chemical formula: C₆H₇NaO₆

Molecular mass: 198.11 g/mol



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Structure formula:



Section 4 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.

Note to physician: Treat symptomatically.

Section 5 Fire-fighting Measures

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

Specific hazards: Severe dust explosion hazard.

Protection of fire-fighters: Precipitate gases/vapors/mists with water spray.

Section 6 Accidental Release Measures

Methods for cleaning up: Collect solids (avoid dust formation) and hand over to waste removal; rinse with plenty of water.

Section 7 Handling and Storage

Handling

Technical measures: Processing in closed systems, if possible superposed by inert gas (e.g. nitrogen); local exhaust ventilation necessary; take precautionary measures against electrostatic charging; avoid dust formation; high dust explosion hazard.

Suitable materials: Stainless steel, coated steel (protective lacquer), glass, polyethylene,



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polypropylene, enamel and not easy to corrosion material by acid and alkali..

Unsuitable materials: Aluminum, copper, zinc, iron and so on.

Storage

Storage conditions: Store in a non-metallic sealed containers, keep in a dry place and away from light.

Packaging materials: Tightly closing; material: coated steel (protective lacquer), glass, polyethylene, polypropylene, PVC and so on.

Section 8 Exposure Controls/Personal Protection

Engineering measures: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Monitoring

Threshold value air: IOEL--10 mg/m³ (defined as 8-hour time-weighted average)

Analytics: Sampling on glass fibre filter and gravimetric or chemical determination.

Personal protective

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

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

Eye protection: Safety glasses.

Section 9 Physical and Chemical Properties

Color: White to yellowish.

Form: Solid crystals or powder.

Odor: slightly pleasant odor.

Solubility: Freely soluble in water, sparingly soluble in ethanol (96 per cent), practically insoluble in methylene chloride.

PH value: 7.0-8.0 (in water).

Section 10 Stability and Reactivity



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Stability: Stable at room temperature under exclusion of humidity.

Conditions to avoid: Humidity; warming.

Materials to avoid: Oxidizing agents, atmospheric oxygen, bases, metals, metal salts.

Note: On prolonged storage, a yellow discoloration may occur; through slow decomposition, which does not noticeably diminish biological activity; in aqueous solutions ascorbic acid is very susceptible to oxidative decomposition, particularly in the presence of alkali resp. heavy metal ions.

Section 11 Toxicological Information

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

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

LD50 518 mg/kg (i.v., mouse)

Local effects:

Eye: may cause irritations

Mucous membranes: may cause irritations

Skin: may cause irritations; particularly in conjunction with humidity (perspiration)

Chronic toxicity: In predisposed individuals 4-12 g/d may cause urinary calculus

Mutagenicity: No suspicion of human mutagenicity

Carcinogenicity: Not carcinogenic (several species)

Reproduction toxicity: Not teratogenic, not embryo toxic

Note: Oral uptake of up to 9 g per day does not produce any serious toxic effects, however, even lesser quantities may cause diarrhoea; RDA (recommended daily allowance): 60 mg.

Section 12 Ecological Information

Inherent biodegradability: Well inherently biodegradable;

97 %, 5 d; 100 %, 15 d

Ecotoxicity: Barely toxic for fish (rainbow trout) LC50 (96 h) 1020 mg/l; the inhibitory concentration relates to re-attachment to substrate (*Dreissena polymorpha*) MIC (48 h) > 50 mg/l (nominal concentration).



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Air pollution: Observe local/national regulations.
Section 13 Disposal Considerations
Waste from residues: Observe local/national regulations regarding waste disposal; drain very small quantities into wastewater treatment plant; large amounts: incinerate in qualified installation with flue gas scrubbing.
Section 14 Transport Information
Note: Not classified by transport regulations
Section 15 Regulatory Information
Note: No classification and labeling according to EU directives; this product is on the European Inventory of Existing Commercial Chemical Substances.
Section 16 Other 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 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.