



Material Safety Data Sheet

Ascorbyl Palmitate

Section 1 - Chemical Product and Company Identification

Material name: Ascorbyl Palmitate

Synonyms: L-Ascorbic acid, 6-hexadecanoate. L-Ascorbic acid 6-palmitate

Supplier:

WENDA CO., LTD

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Section 2 - Composition /Information on Ingredients

Chemical Name	CAS No	%
Ascorbyl Palmitate	137-66-6	100%

Section 3 - Hazards Identification

Emergency Overview

Form: powder

Color: white to slightly yellow

Odor: almost odourless

Hazard Overview - Dust explosion hazard

Potential Health Effects

Exposure:

Inhalation, Ingestion, Skin contact, Eye contact

Target Organs:

Kidneys, respiratory tract, gastrointestinal system

Acute Effects:

May cause eye irritation. May cause skin irritation. May cause mucous membrane irritation (inflammation). May cause gastrointestinal effects., Signs and symptoms may include nausea, vomiting, diarrhea, constipation, cramps, and loss of appetite.

Chronic Effects: May cause kidney stones., May cause bladder stones.

Carcinogenicity: not listed by NTP, IARC or OSHA

Additional Health Information - Conditions Aggravated:

Hemachromatosis, thalassemia, sideroblastic or sickle cell anemia.

Section 4 - First Aid Measures

Eye contact

Rinse immediately with tap water for 10 minutes - open eyelids forcibly

Skin contact

Remove immediately 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

Consult physician

Note to physician - treat symptomatically



Section 5 - Fire Fighting Measures

Suitable extinguishing media - water spray jet, dry powder, foam, carbon dioxide

Flash point (liquid) not applicable

Specific hazards - consider dust explosion hazard

Protection of fire-fighters - precipitate gases/vapours/mists with water spray

Section 6 - Accidental Release Measures

Environmental protection - do not allow to enter drains or waterways

Methods for cleaning up

Collect solids (avoid dust formation) and hand over to waste removal

Clean contaminated areas with little ethanol

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; very high dust explosion hazard

Suitable materials

Stainless steel, aluminium, enamel, glass, polyethylene when plastics are used, possible electrostatic charges must be considered

Storage

Storage conditions

Store in a dry place

Room temperature

< 25 °C, in the unopened original container, see "best use before" date stated on the label

Packaging materials - tightly closing; material: stainless steel, glass, aluminium, enamel, polyethylene, plywood (lined with polyethylene bag), cardboard (lined with polyethylene bag)

Section 8 - Exposure Controls, Personal Protection

Engineering Measures - see 7.

Monitoring

Threshold value (Roche) air - IOEL: 10 mg/m³ (defined as 8-hour time-weighted average) *1

Analytics - sampling on glass fibre filter and gravimetric or chemical determination

Personal protective equipment

Respiratory protection

Respiratory protection is recommended as a precaution to minimize exposure. Effective engineering controls are considered to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls.

In case of open handling or accidental release:



Particle mask or respirator with independent air supply

Hand protection - protective gloves

Eye protection - safety glasses

*1 referring to: Ascorbic Acid

Section 9 - Physical and Chemical Properties

Color white to slightly yellow

Form powder

Odor almost odourless

Molecular mass 414.54 g/mol

Empirical formula C₂₂H₃₈O₇

Bulk density ~ 0.24 g/cm³

Solubility virtually insoluble, water

300 mg/l, vegetable oils

100'000 mg/l, ethanol

Melting temperature 107 to 117 °C

Section 10 - Stability and Reactivity

Conditions to avoid

Light

Warming

Humidity

Materials to avoid - oxidizing agents

Section 11 - Toxicological Information

Acute toxicity LD₅₀ > 20'000 mg/kg (oral, mouse) -LD₅₀ > 10'000 mg/kg (oral, rat)

Local effects

Dust may irritate skin

Dust may irritate eyes

Sensitization - may be slightly sensitizing (guinea pig)

Chronic toxicity - low toxicity

Mutagenicity no suspicion of human mutagenicity –Carcinogenicity not carcinogenic (several species) *1

Reproduction toxicity - not teratogenic, not embryotoxic *1

Note - ADI (Acceptable Daily Intake): 60 mg/kg

Oral uptake of up to 9 g per day does not produce any serious toxic effects, however, even lesser quantities may cause diarrhea *1

GRAS (generally recognized as safe for human consumption)

*1 referring to: Ascorbic Acid

Section 12 - Ecological Information

Inherent biodegradability

Inherently biodegradable 48 %, 28 days (MITI Test II, OECD No. 302 C)



Ecotoxicity moderately toxic for fish, (suspension) (rainbow trout)

LC50 (96 h) 51 mg/l

LC100 (96 h) 100 mg/l

LC0 (96 h) 25 mg/l

Air pollution - observe local/national regulations

Section 13 - Disposal Considerations

Waste from residues

Incinerate in qualified installation with flue gas scrubbing

Observe local/national regulations regarding waste disposal

RCRA waste - not regulated under RCRA

Section 14 - Transport Information

Note - not classified by transport regulations, proper shipping name non-regulated

Section 15 - Regulatory Information

US Regulations

Law: hazardous chemical reporting: community right-to know

Ident_No: 40CFR370

Common name: SARA title 312

Agency: Environmental Protection Agency EPA

Authority: USA

Criteria met: acute, fire

TSCA Status - On TSCA inventory

Reporting Requirements

The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.

In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEPE Hotline (1-609-292-5560) and to local officials.

Large releases of this material are unlikely to endanger the public health or harm the environment.

State and local regulations vary and may impose additional reporting requirements.

Section 16 - Additional Information

The above information has been compiled by WENDA from published sources considered reliable, but not all the information has been independently verified by WENDA. In addition, the exact conditions of use are beyond WENDA's control. Accordingly, WENDA can not guarantee the accuracy of the above, although it is given in good faith.

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