

VITAMIN C (L-ascorbyl palmitate)

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: vitamin C (L-ascorbyl palmitate)
 INCI Name: ascorbyl palmitate
 Chemical Name: 2,3-didehydro-L-threo-hexono-1,4-lactone-6-palmitate or 6-palmitoyl-L-ascorbic acid
 CAS Number: 137-66-6
 EINECS Number: 205-305-4
 Origin: synthetic

Skin Contact: May cause irritation.

Ingestion: May cause gastrointestinal disturbances like nausea, vomiting, diarrhea, constipation, cramps, loss of appetite

Chronic Exposure: May cause kidney stones or bladder stones
 Carcinogenicity: not listed by NTP, IARC or OSHA

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 107—117°C (225—243°F)
 Boiling Point: not determined
 Vapor Pressure: not determined
 Vapor Density: not determined
 Evaporation Rate: not determined
 Bulk Density: 0.24 g/cm³
 Solubility in water: insoluble (soluble in oil)
 pH Value: not determined
 Appearance & Odor: white-yellowish powder, almost odorless

8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.
 Skin: Wash exposed areas of the body with soap and water.
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
 Ingestion: If gastrointestinal symptoms develop, consult physician

3. STABILITY & REACTIVITY

Chemical Stability: stable if stored protected from light, humidity and warming.

Incompatibility: oxidizing agents

Hazardous Decomposition Products: biodegradable

Hazardous Polymerisation: not determined

9. FIRE FIGHTING MEASURES

Flash Point: Not applicable

Danger of Explosion: consider dust explosion hazard

Extinguishing Media: foam, water spray jet, dry powder, carbon dioxide

Fire Fighting: Firefighters should wear full fire-fighting turn-out gear including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand.

4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid sunlight, freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 > 20 g/kg (oral, mouse)

Skin and Eye Irritation Tests: may be irritant to skin and eyes

Sensitization: May be slightly sensitizing (guinea pigs)

Teratogenicity, Mutagenicity: not teratogenic or mutagenic

Special Note: oral uptake of up to 9g/d does not produce any serious toxic effects. Diarrhea may occur with even smaller doses.

5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.

Protective Clothing: Gloves recommended. Safety glasses, goggles, or face shield recommended for eye protection.

Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

Monitoring: Threshold value air: IOEL 10mg/m³ (8h weighted av.)

12. TRANSPORT INFORMATION

General: not classified by transport regulations

DOT Regulations, Hazard Class: none

ADR/ R I C Code, Hazard Class: none

Sea Transport IMDG Code, Hazard Class: none

Air Transport IATA, Hazard Class: none

7. HAZARDS IDENTIFICATION

Inhalation: May cause mild irritation to the respiratory tract.

Eye Contact: May cause irritation.

13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.