

# SAFETY DATA SHEET

### 1. Identification

in identification			
Product identifier	Ascorbyl Palmitate		
Other means of identification			
Catalog number	1043105		
CAS number	137-66-6		
Synonyms	Vitamin C Palmitate		
Chemical name	L-Ascorbic acid, 6-hexadeca	anoate	
Recommended use	Specified quality tests and a	issay use only.	
Recommended restrictions	Not for use as a drug. Not for	or administration to huma	ans or animals.
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States		
Telephone	<b>RS</b> Technical Services	301-816-8129	
Website	www.usp.org		
E-mail	RSTECH@usp.org		
Emergency phone number	CHEMTREC within US & Canada	1-800-424-9300	
	CHEMTREC outside US & Canada	+1 703-527-3887	
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	Not available.		
Precautionary statement			
Prevention	Not available.		
Response	Not available.		
Storage	Not available.		
Disposal	Not available.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		
3. Composition/information on ingredients			
Substance			
Chemical name	Common name and s	ynonyms	CAS number

Chemical name	Common name and synonyms	CAS number	%
Ascorbyl Palmitate	Vitamin C Palmitate	137-66-6	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation	ation develops and persists.	

Material name: Ascorbyl Palmitate

Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Gastrointestinal disturbances.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
5. Fire-fighting measures	
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	ures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.
Conditions for safe storage, including any incompatibilities	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.
8. Exposure controls/perso	onal protection
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	For laboratory operations, use good technique and limit open handling. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.
Individual protection measures, s Eye/face protection	such as personal protective equipment Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Other	Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
Respiratory protection	Respirators are generally not required for laboratory operations. Chose respiratory protection

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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## 9. Physical and chemical properties

9. Physical and chemical p	broperties	
Appearance	Appearance descriptions are general information and not specific to any USP lot.	
Physical state	Solid.	
Form	Powder.	
Color	White. Yellow.	
Odor	Characteristic.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	224.6 - 242.6 °F (107 - 117 °C)	
Initial boiling point and boiling range	Not available.	
Flash point	> 199.9 °F (> 93.3 °C) (Closed Cup)	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Very slightly soluble.	
Solubility (other)	Chloroform: Very slightly soluble. Ethanol: Freely soluble. Ether: Very slightly soluble. Vegetable oils: Very slightly soluble.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Chemical family	Carboxylic acid derivative.	
Molecular formula	C22-H38-O7	
Molecular weight	414.53	
10. Stability and reactivity		
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Stable at normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	Contact with incompatible materials.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.	
11. Toxicological information		

#### Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.

Eye contact	Knowledge about health hazard is in	ncomplete.	
Ingestion	Knowledge about health hazard is in	ncomplete.	
Symptoms related to the physical, chemical, and toxicological characteristics	Gastrointestinal disturbances. Flushing. Headache. Urinary problems.		
nformation on toxicological effe	ects		
Acute toxicity			
Product	Species	Test Results	
Ascorbyl Palmitate (CAS 137-66-6	)		
Acute			
Dermal			
	Guinea pig	> 3000 mg/kg	
Oral			
LD50	Mouse	25000 ml/kg	
Skin corrosion/irritation	Based on available data, the classif	ication criteria are not met.	
Serious eye damage/eye rritation	Knowledge about health hazard is in	ncomplete.	
Local effects 10 % Skin irritation test Result: Non-irritant. Species: Rabbit			
Respiratory or skin sensitizatior	1		
Respiratory sensitization	Knowledge about health hazard is in	ncomplete.	
Skin sensitization	Knowledge about health hazard is in		
Germ cell mutagenicity	Knowledge about mutagenicity is in	complete.	
Mutagenicity Ames test (Salmonel Result: Negative.	la typhimurium)		
Carcinogenicity	Knowledge about carcinogenicity is	incomplete.	
Not listed.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1	050)	
Not regulated. US. National Toxicology Pro Not listed.	ogram (NTP) Report on Carcinogen	5	
Reproductive toxicity	Knowledge about health hazard is in	ncomplete.	
Specific target organ toxicity - single exposure	Knowledge about health hazard is in	-	
Specific target organ toxicity -	Knowledge about health hazard is in	ncomplete.	
Aspiration hazard	Based on available data, the classif	ication criteria are not met.	
12. Ecological information	I		
Ecotoxicity		ironmentally hazardous. However, this does not exclude the Is can have a harmful or damaging effect on the environment	
Persistence and degradability	No data is available on the degrada		
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Other adverse effects		ects (e.g. ozone depletion, photochemical ozone creation al warming potential) are expected from this component.	
13. Disposal consideration	าร		
Disposal instructions	user of the product to determine, at	icable regulations. Under RCRA, it is the responsibility of the the time of disposal, whether the product meets RCRA criteri	
_ocal disposal regulations	for hazardous waste. Dispose in accordance with all appli	icable regulations	
lazardous waste code		I in discussion between the user, the producer and the waste	

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or line product residues. This material and its container must be disposed of in a Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnin emptied. Empty containers should be taken to an approved waste handli disposal.	
14. Transport information		
DOT		
Not regulated as dangerous g	pods.	
ΙΑΤΑ		
Not regulated as dangerous g	pods.	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	
General information	It is the shipper's responsibility to determine the correct transport classifier shipment.	cation at the time of
15. Regulatory information	1	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by th Communication Standard, 29 CFR 1910.1200.	ne OSHA Hazard
TSCA Section 12(b) Export I	Notification (40 CFR 707, Subpt. D)	
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed. SARA 304 Emergency releas	se notification	
Not regulated.	d Substances (29 CFR 1910.1001-1050)	
Not regulated.		
-	authorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazard Not listed.	ous substance	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section Not regulated.	112 Hazardous Air Pollutants (HAPs) List	
Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop is not known to contain any chemicals currently listed as carcinogens or	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	res
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

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Issue date	11-02-2009
Revision date	08-29-2017
Version #	03
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