



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

ALPHA LIPOIC ACID USP (DL-)

30-5064

Section 1: Identification

Product Name ALPHA LIPOIC ACID USP (DL-)
Commercial Name N/A
Product Use Being a pharmacological active ingredient, Use only by manufacturers of pharmaceutical products
Restrictions On Use N/A
Product Code 30-5064
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute Tox. 4 oral
CFR 1910.1200
Signal Word WARNING
Hazard Statement(s) Harmful if swallowed
Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention P270 Do not eat, drink or smoke when using this product
Response P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Storage P404 Store in a closed container
Disposal P501 Dispose of contents/container in a site approved for chemical and hazardous waste or burned in a specialised burning centre

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components 5-(1-2 dithiolan-3-yl) valeric acid
% By Weight 100%
CAS# 1077-28-7
Molecular Weight 206.33
Chemical Formula C₈H₁₄O₂S₂
Synonym(s) N/A

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
N/A	N/A	N/A	N/A	N/A



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Section 4: First-Aid Measures

Inhalation	Allow the victim to rest in a well ventilated area. Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. In severe cases or if symptoms persists, seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Eye Contact	Immediately flush eyes with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention
Symptoms/Effects	
Acute	N/A
Delayed	N/A
Immediate Medical Attention	N/A

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

In case of fire use water, chemical type foam, carbon dioxide, dry chemical. Prevent run off of water from entering drains.

Unsuitable Extinguishing Media

N/A

Products of Combustion

The substance evolves toxic fumes due to the presence of CO, CO₂, NO_x.

Firefighters Special Equipment and Precautions

Respiratory and eye protection for fire-fighting personnel

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

Section 7: Handling and Storage

Handling: This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet. It should always be handled in an efficient fume hood or equivalent system and, if necessary, wear protective equipment. Care should be taken to prevent the chemical from coming into contact with the skin or eyes and from contaminating personal clothing. Storage: Avoid contact with oxidising substances. For safety purposes, the substance does not require any special storage conditions. As an indication, the information provided by official monograph is: USP: preserve in well-closed containers at controlled room temperature. For storage of the substance for pharmaceutical use, or for registration purposes please refer to the stability data conducted in-house and reported in the document regulatory "Active Substance Master File" (ASMF or DMF).

Section 8: Exposure Controls/Personal Protection

Exposure Limits	N/A
Engineering Controls	N/A

Personal Protection

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Eye/face protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Skin and body protection: The type of protective equipment (es. Tyvek suit) must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals, flame retardant antistatic protective clothing. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) with cartridges P1 (inert substances) P2 (harmful substances) P3 (toxic substances). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance	yellow crystalline powder		
Odor	N/A		
Odor Threshold	N/A		
Melting Point	59-61C	pH	N/A
Freezing Point	N/A	Vapor Pressure	N/A
Boiling Point/Range	160-165C	Vapor Density	N/A
Decomposition temperature	N/A	Viscosity	N/A
Partition Coefficient: n-octanol/water	N/A	Evaporation Rate	N/A
Flash Point	N/A	Autoignition temperature	N/A
Flammability	N/A	Flammability or Explosive Limits:	
		Lower	N/A
		Upper	N/A
Solubility(ies)	very slightly soluble in water		
Other	N/A		

Section 10: Stability and Reactivity

Reactivity	N/A
Chemical Stability	The product is stable in usual working conditions
Hazardous Polymerization	N/A
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	Strong oxidising agents. Alkali metals, bases, strong acids, halogens
Hazardous Decomposition Products	The substance evolves toxic fumes due to the presence of CO, CO2, SOx.

Section 11: Toxicological Information

RTECS	N/A
Acute Toxicity	
Acute Oral LD 50 rat mg/kg 1130 (EDQM) Acute I.P. LD 50 mouse mg/kg 235 (ChemIDplus)	
Skin Corrosion/Irritation	
N/A	
Serious Eye Damage/Irritation	
May be harmful if swallowed.	
Respiratory or Skin Sensitization	
May be harmful if inhaled. May cause skin irritation	
Germ Cell Mutagenicity	
N/A	
Carcinogenicity	
N/A	
Reproductive Toxicity	
N/A	
Routes of Entry	
N/A	
Symptoms Related to Exposure	
N/A	

Potential Health Effects

N/A

Target Organ(s) N/A**Section 12: Ecological Information****Ecotoxicity**

N/A

Persistence and Degradability

N/A

Bioaccumulative Potential

Log Pow 2,3 at 20°C (EDQM)

Mobility in Soil

N/A

Other Adverse Effects

N/A

Section 13: Disposal Considerations**Waste Disposal**

Do not empty into drains. Use appropriate containment to avoid environmental contamination. Disposal should be in accordance with local, state or national regulation.

Disposal of Container

The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.

Other Considerations

N/A

Section 14: Transport Information**DOT Classification**

UN number:ADR/RID: -IMDG: -IATA: - UN proper shipping name:ADR/RID-IMDG -IATA- Transport hazard class(es):ADR/RID: -IMDG: -IATA: - Packaging group:ADR/RID: -IMDG: -IATA: - Environmental hazards: ADR/RID: no IMDG: no IATA: no

Section 15: Regulatory Information**Regulations**

REACH exempted as API (Active Pharmaceutical Ingredient) CLP Notified with submission NN905190-36 Reference n° 02-2119490608-27-0000

Other

N/A

Section 16: Other Information

N/A