



Safety Data Sheet

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

Levodopa USP

30-2139

Section 1: Identification

Product Name Levodopa USP

Commercial Name Not available.

Product Use Not available.

Restrictions On Use Not available.

Product Code 30-2139

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 Muta. 2 Repr. 2 Aquatic Chronic 2
CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed. Suspected of causing genetic defects. Suspected of damaging the unborn child.
Toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention

P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required. P273 Avoid release to the environment.

Response

P301+P313 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P308+P313 IF exposed or concerned: get medical advice/attention. P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

P501 Dispose of content/container in accordance with national regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Levodopa USP

% By Weight 100

CAS# 59-92-7

Molecular Weight 197.19 g/mole

Chemical Formula C₉H₁₁NO₄

Synonym(s) Beta-(3,4-Dihydroxyphenyl)-L-alanine

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
{L-}DOPA	59-92-7	100	Not available.	Not available.

Section 4: First-Aid Measures

Inhalation	Assure fresh air breathing. Rest. If you feel unwell, seek medical advice
Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
Eye Contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
Ingestion	Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water spray. Carbon dioxide. Dry powder.

Unsuitable Extinguishing Media

Do not use a heavy water stream.

Products of Combustion

Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide, nitrogen oxides etc. toxic gases.

Firefighters Special Equipment and Precautions

Avoid (reject) fire-fighting water to enter environment. Prevent entry to sewers and public waters. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Section 6: Accidental Release Measures

General precautions: Remove ignition sources. Evacuate area. Personal precautions: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Clean up methods: Clean spills promptly. To clean the floor and all objects contaminated by this material, use : sodium hypochlorite solution. Ensure adequate ventilation Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Section 7: Handling and Storage

Personal protection: Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing. Technical protective measures: Material should be handled in a laboratory hood whenever possible. Handling: Handle in accordance with good industrial hygiene and safety procedures. Storage: Protected from light. Storage - away from: All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks. Incompatible materials, see item 10.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Not available.
Personal Protection	Respiratory protection: Wear approved mask. (P3) In case of insufficient ventilation, wear suitable respiratory equipment. - Hand protection: Wear suitable gloves resistant to chemical penetration. - Skin protection: Wear suitable protective clothing. - Eye protection: Chemical goggles or safety glasses. Industrial hygiene: Provide local exhaust or general room ventilation. Material should be handled in a laboratory hood whenever possible.

Section 9: Physical and Chemical Properties

Appearance	white or almost white, crystalline powder		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	285°C	pH	4.5 - 7.0
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Slightly soluble in water, practically insoluble in ethanol (96 per cent). It is freely soluble in 1 M hydrochloric acid and sparingly soluble in 0.1 M hydrochloric acid.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Stable under normal conditions
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Will not occur
Conditions to Avoid	Sources of ignition. Light. Heat.
Incompatible Materials	Not available.
Hazardous Decomposition Products	Carbon monoxide. Nitrogen oxides. Carbon dioxide. When heated to decomposition, emits dangerous fumes.

Section 11: Toxicological Information
RTECS AY5600000

Acute Toxicity

Rat oral LD50 [mg/kg]: 1780 Mouse oral LD50 [mg/kg]: 2363 Rabbit oral LD50 [mg/kg]: 609 Rabbit dermal LD50 [mg/kg]: No data available. Rat inhalation LC50 [mg/L/4h]: No data available.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Category 3: Substances which cause concern for man owing to possible mutagenic effects.

Carcinogenicity

Not available.

Reproductive Toxicity

Category 3: Substances which cause concern for humans owing to possible developmental toxic effects.

Routes of Entry

Not available.

Symptoms Related to Exposure

Nervous system disorders. Gastrointestinal disorders. May produce irregular heart beat and nervous symptoms. Psychiatric disorders. Damage to red blood cells (haemolytic poison). Loss of coordination. Reduced blood pressure.

Potential Health Effects

Not available.

Target Organ(s) Not available.

Section 12: Ecological Information**Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. LC50-96 Hour - fish [mg/L]: >100
EC50-48 Hour-Daphnia magna [mg/L]: >100 IC50-72h-Algae [mg/L]: 1.5

Persistence and Degradability

Partially biodegradable. Log P octanol / water at 20°C: -2.39

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Avoid release to the environment.

Section 13: Disposal Considerations**Waste Disposal**

Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations

Disposal of Container

Not available.

Other Considerations

This product contains hazardous components for the environment. Avoid release to the environment.

Section 14: Transport Information**DOT Classification**

Land transport - Shipping Name: Levodopa - UN No.: 3077 - ADR class: 9 - ADR Packing group: III Maritime transport -
Shipping Name: Levodopa - UN No.: 3077 - IMDG class: 9 - IMDG Packing group: III Air transport - Shipping Name:
Levodopa - UN No.: 3077 - IATA Class or division: 9 - IATA Packing group: III

Section 15: Regulatory Information**Regulations**

Information in the regulations EC No 1272/2008: Levodopa is not listed in the regulations EC No 1272/2008. Information in the Directive 67/548/EEC: Levodopa is not listed in Annex I of Directive 67/548/EEC.

Other

Not available.

Section 16: Other Information

Not available.