



Safety Data Sheet

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

Leucovorin Calcium USP

55-2692

Section 1: Identification

Product Name Leucovorin Calcium USP
Commercial Name Not available.
Product Use Not available.
Restrictions On Use Not available.

Product Code 55-2692

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: Not available.
CFR 1910.1200

Signal Word NON-HAZARDOUS

Hazard Statement(s) Not available.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available.
Response Not available.
Storage Not available.
Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Leucovorin Calcium USP
% By Weight 100
CAS# 1492-18-8
Molecular Weight 511.51 g/mole
Chemical Formula C₂₀H₂₁CaN₇O₇
Synonym(s) L-N-(p-((2-Amino-5-formyl-5,6,7,8-tetrahydro-3-hydroxy-6-pteridiny)l)m acid calcium salt

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Leucovorin Calcium USP (Anhydrous)	1492-18-8	100	Not Available.	Not Available.

Section 4: First-Aid Measures

Inhalation	Remove casualty to fresh air and keep warm and at rest.
Skin Contact	Wash with plenty of water and soap.
Eye Contact	Wash immediately with water.
Ingestion	Do not induce vomiting; get medical attentions showing the MSDS.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.
Immediate Medical Attention	
Not available.	

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

Water, Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Not available

Products of Combustion

Do not inhale explosion and combustion gases.

Firefighters Special Equipment and Precautions

Use suitable breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment. Remove persons to safety. See protective measures under point 7 and 8. Environmental precautions: Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Suitable material for taking up: absorption material, organic, sand. Methods and material for containment and cleaning up: Suitable material for taking up, absorbing material, organic, sand. Wash with plenty of water.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there are not any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment. Conditions for safe storage, including any incompatibilities: Store below 25 °C, protected from light, in an airtight container. Hygroscopic material. Avoid strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	OEL type: IOEL Long Term: 124,000 µg/m ³
Engineering Controls	Not available.
Personal Protection	Eye protection: Wear protective eyeglasses (EN166). Protection for skin: Overall Protection for hands: Not needed for normal use Respiratory protection: Dust mask Environmental exposure controls: Ensure proper ventilation.

Section 9: Physical and Chemical Properties

Appearance	White or light yellow, crystalline, hygroscopic powder		
Odor	Odourless		
Odor Threshold	Not available.		
Melting Point	Decomposition at 240 – 250	pH	6.8 – 8.0 (2.5 % in water)
Freezing Point	Not available.	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	240 °C	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)	Sparingly soluble in water, insoluble in acetone and in ethanol 96 %		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	React with oxidising agents
Chemical Stability	Stable at 25 °C
Hazardous Polymerization	None.
Conditions to Avoid	Light and air. Hygroscopic materia
Incompatible Materials	Avoid strong Oxidizing substances.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and nitrogen oxide

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity

Not classified as dangerous. Not expected to cause significant effects. May cause mechanical irritation to the eyes; may cause mild respiratory tract irritation due to dust. LD50 Oral Rat = 8,00000 g/kg – iv LD50 Oral Mouse = 7,00000 g/kg – iv

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available.

Routes of Entry

Not available.

Symptoms Related to Exposure

Not available.

Potential Health Effects

Not available.

Target Organ(s)

Not available.

Section 12: Ecological Information**Ecotoxicity**

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological information: Not expected to be harmful to aquatic plant and animal life.

Persistence and Degradability

No persisting influence on the environment to be expected.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not mobile. Low mobility in the ground.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

Safety, health and environmental regulations / legislation specific for the substance: Directive 98/24/EC – Risks related to chemical agents at work Directive 2000/39/EC – Occupational exposure limit values Regulation (EC) N° 1907/2006 (REACH) Regulation (EC) N° 1272/2008 (CLP) Regulation (EC) N° 790/2009 (ATP 1 CLP) and (EU) N° 758/2013 Regulation (EU) N° 286/2011 (ATP 2 CLP) Regulation (EU) N° 618/2012 (ATP 3 CLP) Regulation (EU) N° 487/2013 (ATP 4 CLP) Regulation (EU) N° 944/2013 (ATP 5 CLP) Regulation (EU) N° 605/2014 (ATP 6 CLP) Regulation (EU) 2015/830 Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: None Provisions related to Directive EU 2012/18 (Seveso III): Not applicable. German Water Hazard Class: Class 1: slightly hazardous for water.

Other

Not available.

Section 16: Other Information

The above information is believed to be correct but is not purported to be all inclusive and shall be used as a guide. CHP shall not be held liable for any damage resulting from handling or from contact with the above product.