



Safety Data Sheet

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

Pentoxifylline USP

30-4389

Section 1: Identification

Product Name Pentoxifylline USP
Commercial Name Dimethyloxoheptylxanthine, Oxpentifylline, Pentoxifyllin, Pentoxiphyllium, Pentoxyphylline, Trental, Vazofirin, BL 191, Azi
Product Use Not available
Restrictions On Use Not available
Product Code 30-4389
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 toxicity, oral Category 4
CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) Harmful if swallowed.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention	P260 Do not breathe dust. P280 Wear suitable protective clothing, gloves and eye/face protection. P262 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Response	Not available
Storage	Not available
Disposal	Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Pentoxiphylline
% By Weight 100
CAS# 6493-05-6
Molecular Weight 278.31
Chemical Formula C13-H18-N4-O3
Synonym(s) 1-(5-Oxoheptyl)-3,7-dimethylxanthine; 1-(5-Oxyheptyl)theobromine; 1H-PPUrine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-(5-oxoheptyl)- (9CI); 3,7-Dihydro-3,7-dimethyl-1-(5-oxoheptyl)-1H-purine-2,6-dione; 3,7-Dimethyl-1-(5-oxoheptyl)-1H,3H-purin-2,6-dione; 3,7-Dimethyl-1-(5-oxoheptyl)xanthine

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Pentoxiphylline	6493-05-6	100	N/A	N/A

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. Get medical attention if irritation develops and persists.
Eye Contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If swallowed, seek medical advice immediately and show this container or label.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available

Immediate Medical Attention

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

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

Water spray. Carbon Dioxide. Dry Powder. Use fire-extinguishing media appropriate for surrounding materials

Unsuitable Extinguishing Media

None known.

Products of Combustion

Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

Firefighters Special Equipment and Precautions

Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection. Wear suitable protective equipment.

Section 6: Accidental Release Measures

Personal precautions, protective equipments and emergency procedures: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection Environmental precautions: Remove ignition sources. Evacuate area. Methods and materials for containment and cleaning up: To clean the floor and all objects contaminated by this material, use: Water /Detergent. Avoid dust production. Ensure adequate ventilation.

Section 7: Handling and Storage

Precautions for safe handling: 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 - away from : All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks. Incompatible materials. Condition for safe storage: Store in tight light resistant container at controlled room temperature (15-30°C). This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. Pentoxifylline (CAS 6493-05-6) 1 mg/m ³
Engineering Controls	For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. 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.



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Personal Protection

Eye/face protection 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. **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** Train employees in proper gowning and degowning practices. 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. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary. **Thermal hazards** General hygiene considerations Handling practices in this SDS are recommendations for laboratory use of USP materials

Section 9: Physical and Chemical Properties

Appearance	A white to almost white crystalline powder.		
Odor	Odorless		
Odor Threshold	Not available		
Melting Point	219.2 - 221 °F (104 - 105 °C)	pH	5 - 7
Freezing Point	Not available.	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	0.29	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	Not available
Flammability	Will burn if ignited	Flammability or Explosive Limits:	
		Lower	Not available
		Upper	Not available
Solubility(ies)	Soluble in water, freely soluble in methylene chloride; sparingly soluble in ethanol (96%).		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Strong oxidizers
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx.

Section 11: Toxicological Information

RTECS	XH2475000
Acute Toxicity	Rat oral LD50 [mg/kg] : 1170. 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	Not available
Carcinogenicity	Not available
Reproductive Toxicity	Not available
Routes of Entry	Not available.

Symptoms Related to Exposure

Vascular disorders. Reduced blood pressure Dizziness. Flush. Changes in blood pressure.

Potential Health Effects

Not available.

Target Organ(s)

Not available

Section 12: Ecological Information**Ecotoxicity**

LC50-96 Hour - fish [mg/L] : 100-220 EC50-48 Hour-Daphnia magna [mg/L] : >100 IC50-72h-Algae [mg/L] : 1004.20

Persistence and Degradability

Biodegradation [%] : >80 Biodegradable

Bioaccumulative Potential

Data not available

Mobility in Soil

Data not available

Other Adverse Effects

Data not available

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

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**

Not available

Other

Not available.

Section 16: Other Information

Not available.