


Section 1: Identification

Common Name/Trade Name	CAFFEINE ANHYDROUS USP	
Supplier Information	Letco Medical 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	3,7-Dihydro-1,3,7-trimethyl-1H-purine-2,6-dione	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute Tox. 3*; H301	
Signal Word	Danger	
Hazard Statement(s)	H301	Toxic if swallowed
Pictogram(s)		
Precautionary Statement(s)	P264 P270 P301+P310 P330 P405 P501	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	Adverse human health effects : Nervous system disorders. Affects central nervous system. Nervousness. Restlessness. Psychiatric disorders. Exposure may produce an allergic reaction. May produce irregular heart beat and nervous symptoms. Reduced blood pressure. Blurred vision. Headache. Weakness. Gastrointestinal disorders. Potential Health effects Eye: Dust may cause mechanical irritation. Skin: May cause skin irritation. Low hazard for usual industrial handling. Ingestion: Harmful if swallowed, May cause gas tro intestinal irritation with nausea,vomiting and diarrhea. Inhalation: May cause respiratory tract irritation,may cause effects similar to those described for ingestion. Chronic: May cause cancer according to animal studies.may cause digestive tract and cardiac disturbances. May cause reproductive and fetal effects.	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Caffeine
Common Name	Caffeine Anhydrous
CAS Number	58-08-2
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	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.
If Inhaled	Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.
In Case of Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
In Case of Eye Contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
If Swallowed	Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.
Most Important Symptoms and Effects	No data available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	- Suitable extinguishing media: Water spray, Carbon dioxide, Dry powder. - Unsuitable extinguishing media: Do not use a heavy water stream. Surrounding fires : Use water spray or fog for cooling exposed containers.
Special Hazards Arising From the Substance/Mixture	Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.
Special PPE and/or Precautions for Firefighters	Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Remove ignition sources. Evacuate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection
Methods and Materials Used for Containment	Clean spills promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation.
Cleanup Procedures	Clean spills promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing. Material should be handled in a laboratory hood whenever possible. Handle in accordance with good industrial hygiene and safety procedures.
Conditions for Safe Storage	Storage: CAFFEINE is not intended for long-term storage. Keep container tightly closed in a natural temperature, well ventilated place. Storage - away from: All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks. Incompatible materials, see §10.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available
Appropriate Engineering Controls	Industrial hygiene: Provide local exhaust or general room ventilation. Material should be handled in a laboratory hood whenever possible.
PPE - Eye/Face Protection	Chemical goggles or safety glasses.
PPE - Skin Protection	Wear suitable protective clothing.
PPE - Body Protection	Wear suitable protective clothing.
PPE - Respiratory Protection	Wear approved mask. In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9: Physical and Chemical Properties

Appearance	Physical state at 20°C: Powder Colour: White
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	No data available
Melting Point/Freezing Point	Melting point [°C]: 234-239.
Solubility	Sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol. It dissolves in concentrated solutions of alkali benzoates or salicylates.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	Log P octanol / water at 20°C: -0.070
Auto-Ignition Temperature	Auto-ignition temperature [°C]: 540-600
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	Stable under normal conditions.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal conditions.
Conditions to Avoid	Heat. Light.
Incompatible Materials	Oxidizing agent.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide. Nitrogen oxides. When heated to decomposition, emits dangerous fumes.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Rat oral LD50 [mg/kg]: 192 Rabbit oral LD50 [mg/kg]: No data available Mouse oral LD50 [mg/L/4h]: No data available
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	No data available
Carcinogenicity ACGIH	No data available
Carcinogenicity NTP	No data available
Carcinogenicity OSHA	No data available
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Targer Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Ecological effects information: May be toxic to aquatic life. LC50-96 Hour - fish [mg/L]: 87 EC50-48 Hour-Daphnia magna [mg/L]: 182 IC50-72h-Algae [mg/L]: >100
Persistence and Degradability	No data available Biodegradation [%]: Biodegradable
Bio-accumulative Potential	Weak.
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	General: 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.
Waste Treatment Methods Packaging	General: 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.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	1544
UN Proper Shipping Name	ALKALOIDS, SOLID, N.O.S./ALKALOID SALTS, SOLID, N.O.S.
Transport Hazard Class(es)	6.1
Packaging Group	III
Environmental Hazards	N/A

Section 15: Regulatory Information

Symbol(s) : Xn: Harmful. Risk Phrases: R22: Harmful if swallowed. Safety Phrases: S22: Do not breath dust S36/37 : Wear suitable protective clothing and gloves. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Section 16: Other Information

Additional Information	N/A
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