



Safety Data Sheet

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

Caffeine USP Anhydrous

30-1158

Section 1: Identification

Product Name Caffeine USP Anhydrous
Commercial Name 1,3,7-trimethylxanthine
Product Use food additive
Restrictions On Use Not available.

Product Code 30-1158

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	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
Storage	Not available.
Disposal	Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Caffeine USP Anhydrous
% By Weight 100
CAS# 58-08-2
Molecular Weight 194.2 g/mole
Chemical Formula C₈H₁₀N₄O₂
Synonym(s) Not available

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Caffeine USP Anhydrous	58-08-2	100	Not available.	ORAL (LD50):Acute: 192mg/kg [Rat]. 127 mg/kg [Mouse]. 224mg/kg [Rabbit].

Section 4: First-Aid Measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Eye Contact	Flush eyes with water as a precaution.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.
Immediate Medical Attention	
Not available.	

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not available.

Firefighters Special Equipment and Precautions

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Environmental precautions: 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: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Storage: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protection	Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin 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. Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US) or CEN(EU). Control of environmental exposure: Do not let product enter drains.

Section 9: Physical and Chemical Properties

Appearance	White solid. (Powder.)		
Odor	Odorless.		
Odor Threshold	Not available		
Melting Point	Melting Range: 234 - 239 °C	pH	Not available
Freezing Point	Not available	Vapor Pressure	20hPa (15 mmHg) at 89 °C (192 °F)
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	log Pow: -0.091 at 23 °C (73	Evaporation Rate	Not applicable
Flash Point	No data available	Autoignition temperature	Not applicable
Flammability	Not applicable	Flammability or Explosive Limits:	
		Lower	Not applicable
		Upper	Not applicable
Solubility(ies)	18.7 g/l at 16 °C (61 °F)		
Other	Bulk density 220 kg/m3		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Not available
Conditions to Avoid	Not available.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information
RTECS EV6475000

Acute Toxicity

LD50 Oral - rat - male and female - 367.7 mg/kg (OECD Test Guideline 401) LC50 Inhalation - rat - male and female - 4.94 mg/1
(Calculation method) LD50 Dermal - rat - male and female - > 2,000 mg/kg

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Did not cause sensitisation on laboratory animals.

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) Liver - Irregularities - Based on Human Evidence**Section 12: Ecological Information****Ecotoxicity**

Not available.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Bioaccumulative potential: Weak.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company

Disposal of Container

Dispose of as unused product.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Land transport -Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine) - UNNo.: Not applicable - ADR/RID class: Not applicable
ADR/RID Packing group: Not applicable - *ADR Labelling: Not applicable Maritime transport -Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine) - UN No.: Not applicable - IMDG Class: Not applicable - IMDG Packing group: Not applicable -
*IMDG Labelling: Not applicable Airtransport - Shipping Name: ALKALOIDS, SOLID, N.O.S. (Caffeine) - UN No.: Not applicable - IATA Class or division: Not applicable IATA Packing group: Not applicable - *IATA Labelling: Not applicable

Section 15: Regulatory Information**Regulations**

Not available.

Other

Not available.

Section 16: Other Information

The information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Abbreviations and acronyms: RTECS: Registry of Toxic Effects of Chemical Substances ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulations Concerning the International Transport of Dangerous Goods by Rail; IMDG: International Maritime dangerous Goods; IATA: International Air Transport Association; EC # (EINECS #): European Inventory of Existing Commercial Chemical Substances; CAS: Chemical Abstracts Service (division of the American Chemical Society); LC 50: Half Maximal Lethal Concentration; LD 50: Half Maximal Lethal Dose; EC 50: Half Maximal Effective Concentration; TC 50: Half Maximal Inhibitory Concentration.