Safety Data Sheet

1. Identification

Product Name:	Caffeine Anhydrous — Bulk Food Grade
Synonyms:	1,3,7-Trimethylxanthine, anhydrous caffeine
Recommended Use:	Food and supplement ingredient (caffeine source). Industrial / professional use only.
Restrictions on Use:	None known for food use within regulatory limits.
Supplier:	LiquidShop (Liquid Solution), 613 Rte du Président-Kennedy, porte 6, Lévis, QC G6C 1J6, Canada
Contact:	info@liquidsolution.ca · liquidshop.ca
Emergency Telephone:	Centre antipoison du Québec: 1-800-463-5060 (24 h)

2. Hazard Identification

Classification:	Acute toxicity, oral – Category 4 (WHMIS 2015 / GHS).
Pictogram / Signal Word:	GHS07 (exclamation mark) – Warning
Hazard Statement:	H302 Harmful if swallowed.
Precautionary Statements:	P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local regulations.
Other Hazards:	Concentrated caffeine powder: small quantities contain large doses. Never consume the powder directly. Fine dust dispersed in air may form combustible dust concentrations.

3. Composition / Information on Ingredients

Substance:	Caffeine anhydrous
CAS No.:	58-08-2
EC No.:	200-362-1
Molecular Formula / Weight:	C8H10N4O2 / 194.19 g/mol
Concentration:	98.5 – 101.0 %

4. First-Aid Measures

Inhalation:	Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact:	Wash with soap and water.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.
Ingestion:	Rinse mouth. Call a poison centre or doctor if you feel unwell. Do not induce vomiting unless directed by medical personnel.
Symptoms / Effects:	Overexposure by ingestion may cause restlessness, nervousness, tremor, rapid heartbeat, nausea and vomiting. Dust may irritate eyes.

5. Fire-Fighting Measures

Extinguishing Media:	Water spray, foam, dry chemical or CO2.
Specific Hazards:	Not flammable. Fine dust may form combustible mixtures with air. Thermal decomposition may release oxides of carbon and nitrogen.
Protective Equipment:	Self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions:	Avoid dust formation and contact with eyes. Ensure adequate ventilation.
Environmental Precautions:	Avoid release of large quantities to drains and surface water.
Clean-up:	Sweep or vacuum up and place in a suitable closed container for disposal. Avoid generating dust.

7. Handling and Storage

Handling:	Handle in accordance with good manufacturing and hygiene practices. Avoid dust formation. Do not eat, drink or smoke when handling. Wash hands after handling. Weigh accurately: highly concentrated.
Storage:	Store in a cool, dry place in tightly closed containers, protected from light and moisture, out of reach of children. Keep away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limits:	No occupational exposure limits established. Nuisance dust limits apply.
Engineering Controls:	General or local exhaust ventilation to control dust.
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Food-grade gloves and clean work clothing.
Respiratory Protection:	Dust mask (N95) if dust is generated.

9. Physical and Chemical Properties

Appearance:	White crystalline powder
Odour:	Odourless
Taste:	Bitter
pH:	5.5 – 6.5
Melting Point:	235 – 237.5 °C
Solubility:	Sparingly soluble in cold water; freely soluble in boiling water
Flammability:	Not flammable

10. Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Excessive heat, moisture, dust generation.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition:	Oxides of carbon and nitrogen.

11. Toxicological Information

Acute Oral Toxicity:	Harmful if swallowed (Category 4).
Effects:	Central nervous system stimulant. High doses may cause tachycardia, arrhythmia, tremor, insomnia, nausea and vomiting.
Irritation:	Dust may cause mild, transient eye irritation.
Food Safety:	Use in foods, beverages and natural health products is restricted by Health Canada maximum levels.

12. Ecological Information

Ecotoxicity:	Not expected to be harmful to aquatic organisms at normal use levels.
Bioaccumulation:	Not expected to bioaccumulate.

13. Disposal Considerations

Disposal:	Dispose of in accordance with local, provincial and federal regulations. Empty packaging may be recycled.

14. Transport Information

TDG / DOT / IATA / IMDG:	Not regulated for ground transport (TDG / DOT) in food-ingredient packaging. For air or sea shipment, the shipper must confirm classification (may be regulated as UN 1544, Alkaloids, solid, n.o.s. (caffeine), Class 6.1, PG III).

15. Regulatory Information

Canada:	Hazardous product under WHMIS 2015 (acute oral toxicity, Category 4). Addition to foods and natural health products subject to Health Canada limits.
Quality Standard:	Tested per USP monograph methods.

16. Other Information

Date of Issue:	2026-10-08
Revision:	00

The information in this Safety Data Sheet is believed to be accurate as of the date of issue. It is provided for safe handling, use and disposal and does not constitute a warranty or quality specification.