

Conforms to 91/155/EEC-2001/58/EC

SAFETY DATA SHEET

PRODUCT NAME: CAFFEINE

PRODUCT CODE: G1001

CAFFEINE

1. Identification of the substance/preparation and of the company / undertaking

Product Name: Caffeine

Product Code: G1001

Supplier: Shijiazhuang Pharmaceutical Group Imp.& Exp. Trading Co., Ltd.

No.276 Zhongshan West Road Shijiazhuang China

Manufacturer: Shijiazhuang Pharmaceutical Group Co., Ltd.

No.36 Fuqiang Road Luancheng County, Hebei Province China

Emergency telephone number: 86-311-7877154

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Caffeine	58-08-2	100%	Yes

3. Hazards Identification

Emergency Overview

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. POSSIBLE BIRTH DEFECT HAZARD. MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

Health Rating: 2 - Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 0 - None

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT

Storage Color Code: Orange (General Storage)

Potential Health Effects

Inhalation:

Inhalation of dust may irritate the mucous membranes and respiratory tract. High concentrations may produce effects paralleling ingestion.

Ingestion:

Toxic. The adult mean lethal dose is approximately 10 gm. Large doses may produce palpitation, excitement, insomnia, dizziness, headache and vomiting.

Skin Contact:

Conforms to 91/155/EEC-2001/58/EC

SAFETY DATA SHEET

PRODUCT NAME: CAFFEINE

PRODUCT CODE: G1001

Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye Contact:

Causes irritation, redness, and pain.

Chronic Exposure:

Excessive use of caffeine may lead to digestive disturbances, constipation, palpitations, shortness of breath and depressed mental states. Possible teratogen. May cause congenital malformation in the fetus.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Conforms to 91/155/EEC-2001/58/EC

SAFETY DATA SHEET

PRODUCT NAME CAFFEINE

PRODUCT CODE: G1001

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Caffeine (58-08-2)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	-----Canada-----			
	Korea	DSL	NDSL	Phil.
Caffeine (58-08-2)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-----SARA 302-----		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Caffeine (58-08-2)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	-----RCRA-----			-----TSCA-----
	CERCLA	281.33		B(d)
Caffeine (58-08-2)	No	No		No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312 Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

EU Regulation:

Risk Phrases: GMO Free

Product Use: Caffeine anhydrous we supply is considered NOT genetically modified or NOT derived from a genetically modified organism as defined by the EC directives 1830/2003/EC on labeling and traceability and 1829/2003/EC on genetically modified food and food any amending legislation

16. Other Information

History

Date of Issue: January 18, 2005

Version: 2

Prepared by: Quality and Technology Department

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described therein, we cannot guarantee that these are only hazards that exist.

Conforms to 91/155/EEC-2001/58/EC

SAFETY DATA SHEET

PRODUCT NAME CAFFEINE

PRODUCT CODE: G1001

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Incompatible with strong oxidizers, iodine silver salts, tannins, and with strong solutions of caustic alkalis.

Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

Toxicological Data:

Oral rat LD50: 316 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

May cause teratogenic effects.

Cancer Lists

Ingredient	NTP Carcinogen		IARC Category
	Known	Anticipated	
Caffeine (38-08-2)	No	No	3

12. Ecological Information

Environmental Fate:

When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

Conforms to 91/155/EEC-2001/58/EC

SAFETY DATA SHEET

PRODUCT NAME: CAFFEINE

PRODUCT CODE: G1001

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

White powder.

Odor:

Odorless.

Solubility:

1 gm in 46 ml water.

Specific Gravity:

1.23

pH:

6.9 (1% aqueous solution)

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

178C (352F) (sublimes)

Melting Point:

238C (460F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.