



SDS (Safety Data Sheet)

Caffeine

Date: Feb.23, 2022

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance:

Name: Caffeine

Product code: not available

Company/undertaking identification:

Registered company name: Shandong Xinhua Pharmaceutical Co., Ltd.

Manufacturing address: East Chemical Zone of Zibo High & New Technology Development Zone, Zibo, Shandong, P.R.China

Correspondence address: 14 Dongyi Road, Zhangdian District, Zibo, Shandong, P.R. China

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Association/Organisation: not available

Use of the substance: food additives; API for central nervous system stimulants.

2 - HAZARDS IDENTIFICATION

Classification of the substance/preparation:

Classification according to regulation (EC) No 1272/2008:

Hazard class and category code(s): Not applicable.

Classification according to Directive 67/548/EEC: Not applicable.

Label elements:

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictogram:



Signal word: Warning

Hazard statement(s): H302 Harmful if swallowed.

Precautionary statement(s)

P 264 Wash thoroughly after handling.

P 270 Do not eat, drink or smoke when using this product.

P301+P312 If SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with national regulations.

Labelling according to Directive 67/548/EEC:





Xn: Harmful

R Phrase(s): R22: Harmful if swallowed.

S Phrase(s): S2: Keep out of the reach of children.

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.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Index No.	Substance name	CAS No.	EC No.	Classification
613-086-00-5	Caffeine	58-08-2	200-362-1	Not applicable

4 - FIRST AID MEASURES

- General information: Personal protection for the First Aider. Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.
- Inhalation: Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.
- Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
- Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- Ingestion: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

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.

5 - FIRE-FIGHTING MEASURES

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.

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

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

Fire fighting Procedures: As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

6 - ACCIDENTAL RELEASE MEASURES

General precautions: Remove ignition sources. Evacuate area.

Personal precautions: Spill should be handled by trained cleaning personnel properly equipped with respiratory protection, chemically compatible gloves and eye protection.

Environmental precautions: Do not allow product to reach sewage system or any water source. Dispose of waste recovered in accordance with applicable regulations (see item 13). If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Methods for cleaning up: Clean spills promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation.



7 - HANDLING AND STORAGE

Personal protection: Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

Handling: As a general rule, when handling Caffeine avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Wash thoroughly after handling.

Fire prevention: Keep away from open flame, sources of ignition and sparks.

Storage: Preserve in well-closed containers.

Storage - away from: All heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks.
Incompatible materials, see item 10.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure limit: Industry: 200 micrograms/m³

- Personal protection equipment:



General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Do not eat, drink, smoke or sniff while working. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed.

- Respiratory protection: Wear approved mask. (P3)

In case of insufficient ventilation, wear suitable respiratory equipment.

- Hand protection: Wear suitable gloves resistant to chemical penetration.

- Skin protection: Wear suitable protective clothing.

- Eye protection: Chemical goggles or safety glasses.

- Body protection: Protective work clothing.

For further information, see item 11 Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula: C₈H₁₀N₄O₂

Molecular weight: 194.2

Appearance and Odor: White crystalline powder; odorless.

pH: No data available

Melting Range: 234 - 239°C

Boiling Point: 178°C (sublimes)

Flash Point: No data available

Auto-ignition temperature: 540-600°C

Vapor Pressure: 15 mmHg at 89°C

Specific Gravity: 1.23

Solubility: sparingly soluble in water, freely soluble in boiling water, slightly soluble in ethanol (96 per cent). It dissolves in concentrated solutions of alkali benzoates or salicylates.

10 - STABILITY AND REACTIVITY

Stability and reactivity: Stable under normal conditions.

Materials to avoid: Strong oxidizers, iodine silver salts, tannins, strong caustic alkali solutions.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Nitrogen oxides. When heated to decomposition, emits dangerous fumes.

Hazardous reactions: None under normal conditions.



Hazardous polymerization: Will not occur.

11 - TOXICOLOGICAL INFORMATION

RTECS No.: EV6475000 (See actual entry in RTECS for complete information.)

Rat oral LD50 [mg/kg]: 328

Oral Mouse LD50 [mg/kg]: No data available.

Other Toxicity Data: Oral Dog LD50[mg/kg]: No data available.

Rabbit dermal LD50 [mg/kg]: No data available.

Rat inhalation LC50 [mg/L/4h]: No data available.

Acute toxicity: Nervous system disorders. Affects nervous system. Nervousness. Restlessness. Psychiatric disorders. May produce irregular heart beat and nervous symptoms. Reduced blood pressure. Gastrointestinal disorders. Weakness. Headache. Blurred vision.

Chronic toxicity: No data available.

Sensitization: No data available.

12 - ECOLOGICAL INFORMATION

Ecological effects information: May be toxic to aquatic life.

LC50-96 Hour - fish [mg/L]: No data available.

EC50-48 Hour-Daphnia magna [mg/L]: No data available.

IC50-72 Hour-Algae [mg/L]: No data available.

Biodegradation [%]: Biodegradable.

Persistence - degradability: No data available.

Log P octanol / water at 20°C: No data available.

Bioaccumulative potential: Weak.

13 - DISPOSAL CONSIDERATIONS

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.

14 - TRANSPORT INFORMATION

Land transport

- Shipping Name: Caffeine
- UN No.: Not applicable
- ADR/RID class: Not applicable
- ADR/RID Packing group: Not applicable
- *ADR Labelling: Not applicable

Maritime transport

- Shipping Name: Caffeine
- UN No.: Not applicable
- IMDG Class: Not applicable
- IMDG Packing group: Not applicable
- *IMDG Labelling: Not applicable

Air transport

- Shipping Name: Caffeine
 - UN No.: Not applicable
 - IATA Class or division: Not applicable
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- IATA Packing group: Not applicable

- *IATA Labelling: Not applicable

15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture;

EU regulations:

Not applicable

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;

IC 50: Half Maximal Inhibitory Concentration.
