

# Material Safety Data Sheet



## CAFFEINE

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### Biozoa Biological Supply Company

Korea, Seoul, Geumcheon-gu, Doosan-ro 70, B-1008(Hyundai-Center) Tel. 02-862-1372 | Fax. 02-862-2372



#### Section 1 – Product Description

**Product Name:** Caffeine, 99.5%  
**Product Code(s):** 85-1568  
**Size:** 25G  
**Chemical Name:** Caffeine  
**CAS Number:** 58-08-2  
**Formula:** See Section 3  
**Synonyms:** No-Doz  
**Distributor:** Biozoa Biological Supply Company. Seoul, Geumcheon-gu, Doosan-ro 70, B-1008(Hyundai-Center)  
**Chemical Information:** 02-862-1372 (9am-5pm (ET) M-F)

#### Section 2 – Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Toxic if swallowed.

**GHS Classification:**  
Acute Toxicity - Oral Category 3

#### Section 3 – Composition / Information on Ingredients

Chemical Name	CAS #	%
Caffeine	58-08-2	99.5

#### Section 4 – First Aid Measures

##### Emergency and First Aid Procedures:

- Eyes** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin** – After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- Ingestion** – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Inhalation** – In case of accident by inhalation: remove casualty to fresh air and keep at rest.

#### Section 5 – Firefighting Procedures

**Extinguishing Media:** Use alcohol foam, carbon dioxide, or water spray when fighting fires

**Fire Fighting Methods and Protection:** involving this material. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products. Explosive when mixed with oxidising substances.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Nitrogen oxides

## Section 6 – Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways.

## Section 7 – Special Precautions

**Precaution to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Avoid contact with skin and eyes. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Harmful if swallowed.

## Section 8 – Protection Information

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:**

**Local Exhaust:** Acceptable

**Mechanical (General):** Required

**Special:** No

**Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent.

**Eye Protection:** Splash proof chemical safety goggles should be worn.

**Other Protective Clothing or Equipment:** Lab coat, apron, eyes wash, safety shower.

## Section 9- Physical Data

**Molecular Weight:** 194.19

**Boiling Point:** N/A

**Vapor Density (Air=1):** N/A

**Percent Volatile by Volume:** N/A

**Solubility in Water:** Slightly Soluble

**Melting Point:** N/A

**Vapor Pressure:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Evaporation Rate (BuAc=1):** N/A

**Appearance and Odor:** Crystalline Solid

## Section 10 - Reactivity Data

**Stability:** Stable

**Conditions to Avoid:** Heat and sources of ignition

**Incompatibility (Material to Avoid):** Strong oxidizing agents

**Hazardous Decomposition Product:** Nitrogen oxides, Carbon dioxide, Carbon monoxide

**Hazardous Polymerization:** Will not occur

## Section 11 – Toxicity Data

**Toxicity Data:** sbc-rat TDLo 3.6 mg/kg

**Effects of Overexposure:****Acute:** See Section 2**Chronic:** Mutation data cited. Not listed as a carcinogen by IARC, NTP or OSHA.**Conditions Aggravated by Overexposure:** N/A**Target Organs:** N/A**Primary Route(s) of Entry:** Ingestion. skin contact.**Section 12- Ecological Data****Overview:** This material is not expected to be harmful to the ecology. Components of this product are hazardous to wildlife and aquatic life.**Mobility:** No data**Persistence:** No data**Bioaccumulation:** No data**Degradability:** No data**Other Adverse Effects:** No data**Chemical Name****CAS Number****Eco Toxicity**

Caffeine

58-08-2

4 HR EC50 DAPHNIA SPECIES 182.12 MG/L

**Section 13 – Disposal Information****Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.**Waste Disposal Code(s):** Not Determined**Section 14 – Transport Information****Ground - DOT Proper Shipping Name:**

UN2811, Toxic solids, organic, n.o.s.(caffeine), 6.1, III

**Air - IATA Proper Shipping Name:**

UN2811, Toxic solids, organic, n.o.s.(caffeine), 6.1, III

**Section 15 – Regulatory Information****TSCA Status:**

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	58-08-2	No	No	No	No	No

**Section 16 – Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

**Glossary**

ACGIH

American Conference of Governmental Industrial Hygienists

CAS Number

Chemical Services Abstract Number

CERCLA

Comprehensive Environmental Response, Compensation, and Liability Act

DOT

U.S. Department of Transportation

IARC

International Agency of Research on Cancer

N/A

Not Available

NTP

National Toxicology Program

OSHA

Occupational Safety and Health Administration

PEL

Permissible Exposure Limit

ppm

Parts per million

RCRA

Resource Conservation and Recovery Act

SARA  
TLV  
TSCA

Superfund Amendments and Reauthorization Act  
Threshold Limit Value  
Toxic Substances Control Act