CAFFEINE

www.carolina.co

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

CAFFEINE Science education applications No-Doz, Coffeine, Theine Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

DANGER

Section 2



Toxic if swallowed.

GHS Classification: Acute Toxicity - Oral Category 3

Section 3

Composition / Information on Ingredients

Chemical Name Caffeine

CAS # 58-08-2

% 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

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

Section 5

Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. **Fire Fighting Methods and Protection:** 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.

Handling and Storage

Handling:

Storage:

Section 7

Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Avoid creating and inhaling dust. Take off immediately all contaminated clothing.

Store locked up. Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage

Storage Code:

Section 8 Protection Information **ACGIH OSHA PEL** Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A Control Parameters **Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Personal Protective Equipment (PPE): Lab coat, apron, eve wash, safety shower, **Respiratory Protection:** No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if any exposure is possible. Wear chemical splash goggles when handling this product. Have an eye wash station Eye Protection: available. Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Gloves: Nitrile

Section 9

Physical Data

Formula: C8H10N4O2 Molecular Weight: 194.19 Appearance: Crystalline Solid Odor: No data available Odor Threshold: No data available pH: No data available Melting Point: No data available 234 - 236 C Boiling Point: No data available Flash Point: > 93 C Flammable Limits in Air: N/A Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 1.23 at 18 °C Solubility in Water: Slightly Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Strong oxidizing agents Nitrogen oxides, Carbon dioxide, Carbon monoxide Will not occur

Reactivity Data

Section 11		Toxicity	v Data				
Routes of Entry Symptoms (Acute): Delayed Effects:	Inhalation and ingestic Cardiovascular system No data available	on.					
Acute Toxicity: Chemical Name Caffeine	5	CAS Number 58-08-2	Oral LD50 Oral LD50 Rat 1 mg/kg		I I LD50 mined	Inhalation LC50 Not determined	
Carcinogenicity: Chemical Name No data available	5	CAS Number 58-08-2	IARC Not listed	N Not listed	ГР	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. See Section 2 Mutation data cited., Reproductive data cited., Not listed as a carcinogen by IARC, NTP or OSHA.						
Section 12		Ecc	ological Da	ta			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data						
Chemical Name Caffeine	CAS NumberEco Toxicity58-08-24 HR EC50 DAPHNIA SPECIES 182.12 MG/L						
Section 13		Dispo	sal Informa	ation			
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	Section 14 Transport Information						
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:UN2811, Toxic solids, organic, n.o.s.(caffeine), 6.1, IIIUN2811, Toxic solids, organic, n.o.s.(caffeine), 6.1, III							
Section 15	Section 15 Regulatory Information						
TSCA Status:							
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ (CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ	
No data available	58-08-2	No	No N	No	No	No	
Section 16		Additic	onal Inform	ation			

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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 no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health