

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

#1671



IDENTITY

Caffeine Solution 0.1%

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

Ward's Natural Science

Address (Number, Street, City, State, and ZIP Code)

5100 W. Henrietta Rd.

P.O. Box 92912

Rochester, NY 14692-9012

Emergency Telephone Number

800-424-9300 (CHEMTREC)

Telephone Number for Information

716-359-2502

Date Prepared

4/8/96

Signature of Preparer (Kenneth G. Rainis)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Caffeine CAS# 58-08-2	N/A	N/A	N/A	0.1

Warning Poison!! May be harmful if injected or absorbed through skin

Section III - Physical/Chemical Characteristics

Boiling Point	Specific Gravity (H ₂ O = 1)
Approx. 100°C	Approx. 1.0
Vapor Pressure (mm Hg)	Melting Point
14mm (water)	Approx. 0°C
Vapor Density (AIR = 1)	Evaporation rate
0.7 (water)	(Butyl Acetate) <1

Solubility in Water

Complete

Appearance and Odor

Clear, colorless liquid with no odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits in air	LEL	UEL
N/A	% by volume EtOH	-	-

Extinguishing Media

Water spray; carbon dioxide(CO₂); dry chemical(ABC); foam.

Special Firefighting Procedures

N/A

Wear a NIOSH-approved self-contained breathing apparatus and full protective equipment for large spills.

Unusual Fire and Explosion Hazards

When heated to decomposition, emits toxic fumes of nitrous oxides and other hazardous materials. Can react vigorously with oxidizing materials.

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
		Excessive temperatures or heat.
	Stable	
	X	

Incompatibility (Materials to Avoid)

Strong oxidizers materials.

Hazardous Decomposition or Byproducts

Thermal decomposition or burning may produce carbon dioxide, carbon monoxide and oxides of nitrogen

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	N/A
		X

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	No	Yes	Yes

Health Hazards (Acute and Chronic)

Oral child LDLO: 320mg/kg, oral woman LDLO: 1000 mg/kg, oral infant TDLO: 14,7000 ug/kg, oral mouse LD50: 127mg/kg.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
No	No	No	No

Signs and Symptoms of Exposure

Ingestion: May cause palpitation, excitement, insomnia, dizziness headache or vomiting.

Medical Conditions

May be aggravated by exposure.

Emergency and First Aid Procedure

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

Skin: Flush with water.

Ingestion: Do NOT give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water, induce vomiting. Call physician or Poison Control Center.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Wear PPE: goggles, gloves and apron. Remove all sources of ignition, provide adequate ventilation. Absorb spill in vermiculite, paper towelling, or other absorbent material. Place in suitable container for incineration. Wash spill area with soap and water.

Waste Disposal Method

Dilute with copiou amounts of water and flush to sanitary sewer. Disposal may be subject to Federal, State and Local regulations.

Other Precautions: Read label caarefully before use. Do not wear contact lenses when working with chemicals.

For lab use only. Not for drug, food, or cosmetic use. Keep out of reach of children.

Keep away from heat, sparks, and flames. Keep container tightly closed when not in use. Remove and wash contaminated clothing.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None needed		
Ventilation	Local Exhaust	Special
	None needed	No
	Mechanical (General)	Other
	None needed	No

Protective Gloves

Rubber (butyl/nitrile) Gloves

Other Protective Clothing or Equipment

Chemical safety goggles, lab coat, apron, eye wash station in close proximity, within 15 sec. of work station.

Work/Hygenic Practices

Wear protective equipment. Wash hands with soap and water following the handling of this material.

Use under direct supervision of a qualified individual knowledgeable in all aspects of laboratory safety. This product is intended for lab use only. Not for drug, food, or cosmetic use.

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