

MATERIAL SAFETY DATA SHEET

Caffeine Citrate Injection 20mg/mL

Revision Date: 10-01-2007

SECTION 1: PRODUCT IDENTIFICATION

Product Name	Caffeine Citrate Injection 20mg/mL, 3mL vial
Common Name/Trade Name	Caffeine Citrate Injection 20mg/mL, 3mL vial
Synonyms	NA
Chemical Name	1,3,7-trimethylxanthine citrate
Chemical Family	Purine Alkaloid, Diuretic, Central Nervous System Stimulant
Chemical Formula	C ₁₄ H ₁₈ N ₄ O ₉

SECTION 2: HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS#	%	OSHA PEL	ACGIH TLV	IDLH
Caffeine, anhydrous	58-08-2	1%	NA	NA	NA

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute and Chronic Health Effects

EFFECTS OF OVER EXPOSURE: Signs and symptoms reported in the literature in preterm infants, fever, tachypnea, jitteriness, fine tremor of the extremities, hypertonia, opisthotonos, tonic-clonic movements, nonpurposeful jaw and lip movements, vomiting, hyperglycemia, elevated blood urea nitrogen, and elevated total leukocyte concentration.

SECTION 4: FIRST AID MEASURES

Skin Exposure	Flush with water.
Eye Exposure	Flush immediately with copious amounts of water for at least 15 minutes. Obtain emergency medical treatment.
Inhalation	Remove to a well ventilated area.
Ingestion	Obtain emergency medical treatment.

SECTION 5: FIRE / EXPLOSION HAZARDS & FIREFIGHTING MEASURES

Flammability of the Product	NA
Auto-ignition Temperature	NA
Flash Points	NA
Flammable Limits (in air by volume, %)	Lower: NA Upper: NA
Fire Extinguishing Equipment	Use extinguishing agent suitable for type of surrounding fire. Water Spray: OK Foam: OK Carbon Dioxide: OK Dry Chemical: OK
Unusual Fire and Explosion Hazards	None
Explosion Hazards in presence of Various substances	NA
Firefighting Procedures	No special procedures identified

SECTION 6: SPILL AND LEAK PROCEDURES

Spills	Clean area. Dispose in accordance with all applicable regulations.
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SECTION 7: HANDLING AND STORAGE

Work and Hygiene Practices	As with all chemicals, avoid getting this product on you or in you. Do not eat, drink or smoke or apply
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cosmetics while handling the product. Wash hands thoroughly after handling.

Storage and Handling Practices

Keep out of reach of children. Store at controlled room temperature between 20° – 25° C (68°-77° F)

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Under normal conditions of use, no special controls are required.

Personal Protection

Respiratory Protection

No special requirements.

Eye Protection

No special requirements.

Hand Protection

No special requirements.

Body Protection

No special requirements.

SECTION 9: PHYSICAL / CHEMICAL PROPERTIES

Physical state and appearance

Clear, colorless solution

Molecular Weight

NA

Boiling Point

NA

Vapor Density (AIR=1)

NA

Vapor Pressure (mm Hg)

NA

Melting/Freezing Point

NA

pH

NA

Water Solubility

Soluble

Specific Gravity (Water =1)

NA

Water Reactivity

NA

Volatility

NA

Odor

NA

SECTION 10: STABILITY AND REACTIVITY

Stability	This product is stable.
Incompatible Temperature	NA
Incompatible Materials	NA
Conditions of Instability	NA
Hazardous Polymerization	Will not occur
Hazardous Decomposition	NA
Conditions to Avoid	None known at this time.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity	NA
Suspected Cancer Agent	No

SECTION 12: ECOLOGICAL INFORMATION

Environmental Stability	NA
Ecotoxicity	NA
Products of Biodegradation	NA
Special Remarks	NA

SECTION 13: WASTE DISPOSAL

Dispose of material according to local, state, federal and environmental disposal regulations or company operating procedures.

SECTION 14: TRANSPORTATION INFORMATION

DOT classification	NA
Identification	NA
DOT Label(s) Required	NA

SECTION 15: REGULATORY INFORMATION

US SARA Reporting Requirements	NA
Federal and State Regulations	NA

SECTION 16: OTHER INFORMATION

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH	American Conference of Governmental Industry Hygienists
CAS	Chemical Abstract Service
IARC	International Agency for Research on Cancer
IDLH	Immediately Dangerous to Life or Health Level
LC₅₀	Medial Lethal Concentration
LD₅₀	Medial Lethal Dose
MSHA	Mine Safety and Health Administration
NA	Not Available
ND	No Data
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

SECTION 17: DISCLAIMER

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