



MATERIAL SAFETY DATA SHEET

Product:**060253 Custom Caffeine Standards Kit, 10 mL Ampoules****(15, 40, 60, 80, 100 and 1,000 mg/L concentrations)**

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The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

2. HAZARDOUS IDENTIFICATION

HAZARD CLASS	Mild Irritant		NFPA	HMIS
Eyes:	Mild Irritant	HEALTH	0	0
Skin:	Mild Irritant	FLAMMABILITY	0	0
Ingestion:	Mild Irritant	REACTIVITY	0	0
Inhalation:	Mild Irritant	NFPA SPECIAL	-	-
		HMIS PPE		

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	Water	Caffeine	Caffeine	Caffeine	Caffeine	Caffeine	Caffeine
PERCENT (%)	100 - Caffeine %	5.000000000 0000004E-6	1.000000000 0000001E-5	2.500000000 0000001E-5	5.000000000 0000002E-5	0.0001	0.1000%
CAS NO.	7732-18-5	58-08-2	58-08-2	58-08-2	58-08-2	58-08-2	58-08-2
EINECS NO.	231-791-2	200-362-1	200-362-1	200-362-1	200-362-1	200-362-1	200-362-1
RISKS		R36	R20/22, R36	R20/22, R36	R20/22, R36	R20/22, R36	R20/22, R36
SAFETY		S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45	S20, S26, S36/37/39, S45



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4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** None
- HAZARDS:** Not Hazardous
- EXTINGUISHING MEDIA:** Not Applicable
- SPECIAL FIRE FIGHTING PROCEDURES:** Although the product is not combustible, firefighters subject to products of combustion should wear full-protective clothing including self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
- Wear appropriate protective clothing and eye protection.
- Contain spill.
- Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
- Mop up and store in a suitable waste container.
- Wash contaminated areas with soap and water.

7. HANDLING AND STORAGE

- Ensure good ventilation.
- Have an eye wash in the immediate area in case of emergency.
- Store at room temperature
- Keep container tightly closed
- Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



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8. EXPOSURE CONTROL/PERSONAL PROTECTION

ROUTES OF ENTRY

INHALATION: Yes

SKIN: Yes

INGESTION: Yes

HEALTH HAZARDS

ACUTE: May cause irritation of eyes and mucous membranes

CHRONIC: Unknown

VENTILATION

LOCAL EXHAUST: Good laboratory ventilation is acceptable.

MECHANICAL (GENERAL): Use in hoods if possible

SPECIAL: None

OTHER: None

PROTECTIVE CLOTHING OR EQUIPMENT

GLOVES: Disposable laboratory gloves are adequate

EYE PROTECTION: Glasses or goggles.

RESPIRATORY: None

OTHER: Lab coats

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear

ODOR: None

pH: neutral

MOLECULAR WEIGHT: 194.22 (Caffeine)

MELTING POINT: Not Applicable

BOILING POINT: Approximately 100 degrees C

AUTOIGNITION TEMPERATURE: Not Applicable

FLASH POINT: Not Applicable

LOWER EXPLOSION LIMIT: Not Applicable

UPPER EXPLOSION LIMIT: Not Applicable

SPECIFIC GRAVITY: Approximately 1



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10. STABILITY & REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive materials

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon dioxide, carbon monoxide and nitrogen oxides

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGY INFORMATION

PRODUCT TOXICOLOGY INFORMATION:

SYMPTOMS AND SIGNS OF EXPOSURE: May cause minor soreness or redness of eyes or mucous membranes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Unknown

EMERGENCY AND FIRST AID PROCEDURES: In case of contact, wash skin with copious amounts of water.
Flush eyes with copious amounts of water for at least 15 minutes.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Submit to medical examination.

CARCINOGENICITY: No data found

RTECS #: No data found

ACGIH TLV TWA: No data found

OSHA PEL: No data found

NTP: No data found

IARC Monographs: No data found

HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

Hazardous Components:	Water	Caffeine	Caffeine	Caffeine	Caffeine	Caffeine	Caffeine
RTECS #	ZC0110000	EV6475000	EV6475000	EV6475000	EV6475000	EV6475000	EV6475000
OSHA PEL	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
ACGIH TLV	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found	Not Found
TOXICITY DATA	None	ORL-HMN LDLo: 192 mg/Kg	ORL-HMN LDLo: 192 mg/Kg	ORL-HMN LDLo: 192 mg/Kg	ORL-HMN LDLo: 192 mg/Kg	ORL-HMN LDLo: 192 mg/Kg	ORL-HMN LDLo: 192 mg/Kg
	None	IVN-MUS LD50: 68 mg/Kg	IVN-MUS LD50: 68 mg/Kg	IVN-MUS LD50: 68 mg/Kg	IVN-MUS LD50: 68 mg/Kg	IVN-MUS LD50: 68 mg/Kg	IVN-MUS LD50: 68 mg/Kg



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12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

14. TRANSPORT INFORMATION

IATA CLASSIFICATION: Not Regulated

UN ID NUMBER: -
PROPER SHIPPING NAME: -
CLASS OR DIVISION: -
SUB RISK: -
HAZARD LABEL(S): -
PACKAGING GROUP: -
LIMITED QUANTITY PKG INSTRUCTION: -
MAXIMUM LIMITED QUANTITY: -
SPECIAL PROVISIONS: -
ERG CODE: -
TRAINING: -
VARIATIONS: -

15. REGULATORY INFORMATION

PRODUCT RISK STATEMENTS: None Listed
PRODUCT SAFETY STATEMENTS: None Listed

16. OTHER INFORMATION