

## Safety Data Sheet

Prodigy Caffeine Standard CEM Corporation

1-800-424-9300 (CHEMTREC) +1 703-741-5970 (Outside the US)

3100 Smith Farm Road Matthews, NC. 28104 800-726-3331

For Laboratory use only

704-973-2499

info@cem.com

2

Revision Date: 09/13/21 www.restek.com 2 Letter ISO country code/language code: US/EN P/N 601451 Rev 1 Oct 2021

#### 1. IDENTIFICATION

Catalog Number / Product Name: Company: Address:

Phone#: Fax#: Emergency#:

Email: Revision Number: Intended use:

#### 2. HAZARD(S)IDENTIFICATION

#### **Emergency Overview:**

GHS Hazard Symbols:



GHS Classification:	Flammable Liquid Category 2 Serious Eye Damage/Eye Irritation Category 2 Acute Toxicity - Dermal Category 4 Acute Toxicity - Oral Category 4
GHS Signal	Danger
Word: GHS Hazard: GHS	Highly flammable liquid and vapour. Harmful if swallowed or in contact with skin. Causes serious eye irritation.
Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands and skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	<ul> <li>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>IF ON SKIN: Wash with plenty of soap and water.</li> <li>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>Specific measures see section 4.</li> <li>Rinse mouth.</li> <li>If eye irritation persists: Get medical advice/attention.</li> <li>Wash contaminated clothing before reuse.</li> <li>In case of fire: Use extinguishing media in section 5 for extinction.</li> </ul>
Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs:	No data available
Repeated Exposure Target	No data available

Organs:

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	EINEC #	% Composition	
water	7732-18-5	231-791-2	69.93	
acetonitrile	75-05-8	200-835-2	29.97	
caffeine	58-08-2	200-362-1	0.1	

# 4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. Remove to fresh air.
Eyes:	None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
Ingestion:	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS. Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

## 5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing
	agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and
	keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by heat, sparks, flames or other sources of
	ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and
	flash back.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self- contained
	breathing apparatus and full protective equipment. Use methods for the surrounding fire.
Hazardous Combustion Products:	None Known
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or highly toxic.
	Follow personal protective equipment recommendations found in Section
	8 of this SDS. Personal protective equipment needs must be evaluated
	8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special
	based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the
	based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise
	based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any
Methods for Clean-up:	based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise
Methods for Clean-up: 230575 / Prodigy Caffeine Standard	based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

chemical waste container 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.

#### 7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Highly toxic or corrosive material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States: Chemical Name water acetonitrile	<b>CAS No.</b> 7732-18-5 75-05-8	<b>IDLH</b> Not established 137 ppm IDLH	ACGIH STEL None Known None Known	ACGIH TLV-TWA Not established 20 ppm TWA	<b>OSHA Exposure Limit</b> No data available 40 ppm TWA; 70 mg/m3 TWA
Personal Protectio Engineering Meas			Local exhaust v	entilation is recomme	nded when generating excessive levels of
			vapours from ha	andling or thermal pro	cessing.
Respiratory Prote	ction:		product. Genera Use a respirato	al or local exhaust ver r if general room venti	ed to avoid overexposure when handling this ntilation is the preferred means of protection. ilation is not available or sufficient to protection required under normal conditions
Eye Protection:				y resistant safety glas wear contact lenses.	ses with side shields when handling this
Skin Protection:			regular intervals	S. Clean protective eq	es for chemical break-through and replace at uipment regularly. Wash hands and other ater before eating, drinking, and when
Madia di Canditian			March and a straight and a straight and a straight a st	difference affected at the second	

Medical Conditions Aggravated By Exposure: No medical conditions affected by exposure.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available
Odor:	Mild
Physical State:	No data available
pH:	Not applicable
Vapor Pressure:	No data available
Boiling Point:	81.6 °C at 1013.25 hPa (ECHA_API) 100 °C Boiling Point
Flash Point:	43
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	16
Lower Flammable/Explosive Limit, % in air:	4.4
Autoignition Temperature:	No data available deg C
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Odor Threshold:	No data available
Solubility:	Not determined
Partition Coefficient: n-octanol in water:	No data available
VOC % by weight:	29.97
Molecular Weight:	No data available

#### **10. STABILITY AND REACTIVITY**

Stable under normal conditions.
None known.
None Known
None Known

#### 11. TOXICOLOGICAL INFORMATION

Routes of Entry: Target Organs Potentially	/ Affected By Exposure	
Chemical Interactions Th	at Change Toxicity:	system stimulation, Respiratory Tract None Known
Skin Contact: Eye Contact: Ingestion Irritation:	Effects by Route of Exp No hazard in normal indu No hazard in normal indu No hazard in normal indu No hazard in normal indu No hazard in normal indu	istrial use. istrial use. istrial use. istrial use.
Long-Term (Chronic) Heal	th Effects:	
Carcinogenicity: Reproductive and Develo	opmental Toxicity:	No data. No data available to indicate product or any components
Inhalation:	pinentai roxicity.	present at greater than 0.1% may cause birth defects. Upon prolonged and/or repeated exposure, no hazard in normal industrial use.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:		Unlikely to cause irritation even on repeated contact.
Component Toxicological NIOSH:	Data:	
Chemical Name Acetonitrile	<b>CAS No.</b> 75-05-8	LD50/LC50 Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 26.8 mg/L 4 h; Oral LD50 Rat 160 mg/kg
Water	7732-18-5	Oral LD50 Rat >90 mL/kg
Component Carcinogenic OSHA: Chemical Name No data available	Data: CAS No.	
ACGIH: Chemical Name Acetonitrile	<b>CAS No.</b> 75-05-8	A4 - Not Classifiable as a Human Carcinogen
NIOSH: Chemical Name No data available	CAS No.	
NTP: Chemical Name No data available	CAS No.	
IARC: Chemical Name	CAS No.	Group No.
12. ECOLOGICAL INFOR	MATION	
Overview:		Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: Persistence: Bioaccumulation: Degradability: Ecological Toxicity Data: 13. DISPOSAL CONSIDEF	RATIONS	No data No data No data No data No data available
Waste Description of Spe		Spent or discarded material is a hazardous waste.Mixing
	m i roudot.	spent or discarded material is a nazardous waste.mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.
230575 / Prodigy Caffeine S	tandard	Page 4 of 5

#### Waste Disposal of Packaging:

## 14. TRANSPORTATION INFORMATION

Dispose of by waste water treatment following Federal, State, Local, or Provincial regulations. Comply with all Local, State, Federal, and Provincial Environmental Regulations.

United States:		
DOT Proper Shipping Name: UN Number:	DOT Not Regulated	
Hazard Class:	Not regulated Not applicable	
Packing Group:	Not applicable	
International:		
IATA Proper Shipping Name:	IATA Not Regulated	
UN Number:	Not regulated.	
Hazard Class:	Not applicable	
Packing Group:	Not applicable	
Marine Pollutant:	No	

#### **15. REGULATORY INFORMATION**

United States:					
Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
water	7732-18-5	-	-	-	Х
acetonitrile	75-05-8	Х	Х	-	Х
The following cher	nicals are listed o	on CA Prop 65:			
Chemical Name		CAS #	Regulation		
State Right To Kno	w Listing:				
Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
water	7732-18-5	-	-	-	-
acetonitrile	75-05-8	Х	х	Х	Х
caffeine	58-08-2	_	_	_	_

#### **16. OTHER INFORMATION**

Prior Version Date:	09/08/21
Other Information:	Any changes to the SDS compared to previous versions are marked by a vertical
	line in front of the concerned paragraph.
References:	No data available
Disclaimer:	IMPORTANT: WHILE THE DESCRIPTIONS, DATA AND INFORMATION
	CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO
	BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE
	MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE
	RECOMMEND THAT YOU PERFORM AN ASSESSMENT TO DETERMINE THE
	SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO
	USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED,
	INCLUDING FITNESS FOR A PARTICULAR PURPOSE, ARE MADE
	REGARDING PRODUCTS DESCRIBED, DATA OR INFORMATION SET FORTH.
	IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, OR DATA
	PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF
	SALE. FURTHER, THE DESCRIPTIONS, DATA AND INFORMATION
	FURNISHED HEREUNDER ARE GIVEN GRATIS. NO OBLIGATION OR
	LIABILITY FOR THE DESCRIPTION, DATA AND INFORMATION GIVEN ARE
	ASSUMED. ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.