According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

SECTION 1: Identification

Product identifier

Product name: Caffeine **Product code:** S25215

Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable. Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: Supplier:

AquaPhoenix Scientific	Fisher Science Education
860 Gitts Run Road	6771 Silver Crest Road
Hanover	Nazareth
PA 17331	PA 18064
(717) 632-1291	800 955-1177

Emergency telephone number: United States

Emergency Telephone No.: 800-255-3924

SECTION 2: Hazard(s) identification

GHS classification:

Acute toxicity (oral), category 4

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H302 Harmful if swallowed

Precautionary statements:

P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. P405 Store locked up P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification Name V	Weight %
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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017 Caffeine CAS number: 100 Caffeine 58-08-2

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

After swallowing:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists Call a POISON CONTROL CENTER or seek medical attention if you feel unwell Do not induce vomiting Rinse mouth and then drink plenty of water

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

Special precautions:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

Appearance	White crystalline solid
Odor	Odorless
Odor threshold	Not determined or not available.
рН	5.5 - 6.5 at 10 g/l at 20°C
Melting point/freezing point	46°C
Initial boiling point/range	352°C
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	20 hPa at 89°C
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.230 g/cm3 at 18°C
Solubilities	Slightly soluble in water.
Partition coefficient (n-octanol/water)	log Pow: -0.091 at 23°C
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed Product data: No data available. Substance data:

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Page 5 of 8

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affe	ffeine						
	Name	Route	Result				
	Caffeine	oral	LD50 - Rat - 3,677 mg/kg				
Ski	Skin corrosion/irritation						
	Assessment: Based on available	e data, the class	sification criteria are not met.				
	Product data: No data available	2.					
	Substance data: No data availa	able.					
Sei	ious eye damage/irritation						
	Assessment: Based on available	e data, the class	ification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
Re	piratory or skin sensitization	1					
	Assessment: Based on available	e data, the class	ification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
Cai	cinogenicity						
	Assessment: Based on available	e data, the class	sification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
	International Agency for Reso	earch on Cance	er (IARC): None of the ingredients are listed.				
	National Toxicology Program	(NTP): None of	the ingredients are listed.				
Ge	rm cell mutagenicity						
	Assessment: Based on available	e data, the class	ification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
Re	productive toxicity						
	Assessment: Based on available	e data, the class	ification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
Spo	ecific target organ toxicity (si	ngle exposure					
	Assessment: Based on available	e data, the class	sification criteria are not met.				
	Product data: No data available	е.					
	Substance data: No data availa	able.					
Spe	ecific target organ toxicity (re	epeated expos	ure)				
	Assessment: Based on available	e data, the class	sification criteria are not met.				
	Product data: No data available.						
	Substance data: No data available.						
As	piration toxicity						
	Assessment: Based on available	e data, the class	ification criteria are not met.				
	Product data: No data available	2.					
	Substance data: No data availa	able.					
	ormation on likely routes of e	-					
	Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.						
сті	ON 12: Ecological information	1					

SECTION 12: Ecological information

Acute (short-term) toxicity

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Chronic (long-term) toxicity Product data: No data available. Substance data: No data available. Persistence and degradability Product data: No data available. Substance data: No data available. Bioaccumulative potential Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available. Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1544		
UN proper shipping name	ALKALOIDS, SOLID, N.O.S.	ALKALOIDS, SOLID, N.O.S.	
UN transport hazard class(es)	6.1		
Packing group	III		
Environmental hazards	None		
Special precautions for user	None		

International Maritime Dangerous Goods (IMDG)

UN number	UN1544	
UN proper shipping name	ALKALOIDS, SOLID, N.O.S.	
UN transport hazard class(es)	6.1	
Packing group	111	
Environmental hazards	None	
Special precautions for user	None	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1544
UN proper shipping name	ALKALOIDS, SOLID, N.O.S.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

UN transport hazard class(es)	6.1	Michard Mi Ann Ann Ann Ann Ann Ann Ann Ann Ann Ann
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	

SECTION 15: Regulatory information

United States regulations

Inv	entory	listing	(TSCA):	

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

5	8-08-2	Not Listed
		1.500

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

58-08-2	Caffeine	Not
		Listed
ew Jersey Righ	t to Know:	
58-08-2	Caffeine	Not
		Listed
ew York Right	to Know:	
58-08-2	Caffeine	Listed
ennsylvania Ri	ght to Know:	•
58-08-2	Caffeine	Not
		Listed

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no

Listed

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.22.2017

Caffeine

liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-0-0

HMIS: 2-0-0-X

Initial preparation date: 11.22.2017

End of Safety Data Sheet