# **SAFETY DATA SHEET**



eCaspase-3 Blue in PBS, Part Number 8711027

# Section 1. Identification

1.1 Product identifier			
Product name	: eCaspase-3 Blue in PBS, Part Number 8711027		
Part no.	: 8711027		
Validation date	: 10/27/2023		
1.2 Relevant identified uses of	of the substance or mixture and uses advised against		
Identified uses	: F or research use only.		
	8711027 eCaspase-3 Blue 100 uL/vial, 1 mM in 1x PBS 0.1 ml		
Uses advised against	: Not for use in diagnostic procedures (RUO).		
1.3 Details of the supplier of the safety data sheet			
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770		

### 1.4 Emergency telephone number

**OSHA/HCS status** 

In case of emergency	: CHEMTREC®: 1-800-424-9300

# Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

### Classification of the substance or mixture Not classified.

2.2 GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	Not applicable.
2.3 Other hazards	
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
Sodium hydrogenorthophosphate	≤3	7558-79-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

4.1 Description of neo	cessary first aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: ₩ash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

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Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

- Specific treatments : No specific treatment.
- **Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

	Occupitor of the ingitting measures		
5.1 Extinguishing media			
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.		
Unsuitable extinguishing media	: None known.		
5.2 Special hazards arising	from the substance or mixture		
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.		
Hazardous thermal decomposition products	: Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>		
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.		

# Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials fo	r c	containment and cleaning up
Methods for cleaning up		Ston leak if without risk. Move containers from shill area. Dilute with water and mon up

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s) Recommendations

: Industrial applications, Professional applications.

Industrial sector specific solutions

: Not available.

# Section 8. Exposure controls/personal protection

### 8.1 Control parameters

### **Occupational exposure limits**

Ingredient name	Exposure limits
Sodium hydrogenorthophosphate	None.

### **Biological exposure indices**

No exposure indices known.

8.2 Exposure controls	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	2
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.
Skin protection	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

# Section 8. Exposure controls/personal protection

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Respiratory protection
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: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>								
Physical state	:	Liquid.						
Color	:	Not available.						
Odor	:	Not available.						
Odor threshold	:	Not available.						
рН	:	Not available.						
Melting point/freezing point	:	Not available.						
Boiling point, initial boiling point, and boiling range	1	Not available.						
Flash point	:	Not available.						
Evaporation rate	:	Not available.						
Flammability	:	Not applicable.						
Lower and upper explosion limit/flammability limit	1	Not available.						
Vapor pressure	:		Vapo	or Press	ure at 20°C	Vap	oor pres	sure at 50°C
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		water	17.5	2.3	-	92.258	12.3	-
Relative vapor density	:	Not available.		1				
Relative density	:	Not available.						
Solubility(ies)	:	Media			Result			
		water			Soluble			
Miscible with water	:	<b>∀</b> es.						
Partition coefficient: n- octanol/water	:	Not applicable.						
Auto-ignition temperature	:	Not available.						
Decomposition temperature	:	Not available.						
Viscosity	:	Not available.						
Viscosity <u>Particle characteristics</u>	1	Not available.						

# Section 10. Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

# Section 10. Stability and reactivity

10.5 Incompatible materials       : May react or be incompatible with oxidizing materials.         10.6 Hazardous decomposition products       : Under normal conditions of storage and use, hazardous decomposition products should not be produced.	Continu 11 Taxias	le gie al information
	10.5 Incompatible materials	: May react or be incompatible with oxidizing materials.
10.4 Conditions to avoid : No specific data.	10.4 Conditions to avoid	: No specific data.

# Section 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
	LD50 Oral	Rat	17000 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	-	24 hours 500 mg 24 hours 500 mg	-

**Sensitization** 

Not available.

Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
<b>Conclusion/Summary</b>	: Not available.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Not available.
Teratogenicity	
<b>Conclusion/Summary</b>	: Not available.
Specific target organ toxicity	<u>/ (single exposure)</u>
Not available.	
Specific target organ toxicity	<u>(repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effects	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to	the physical, chemical and toxicological characteristics
Eye contact	: No specific data.

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# Section 11. Toxicological information

Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

# Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects : Not available. Potential delayed effects : Not available. Long term exposure : Not available. Potential immediate : Not available.

effects	
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### Numerical measures of toxicity

### Acute toxicity estimates

•	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Caspase-3 Blue in PBS, Part Number 8711027	37878.8	N/A	N/A	N/A	N/A
Disodium hydrogenorthophosphate	17000	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
☑ Sodium hydrogenorthophosphate	Acute EC50 >100 mg/l Fresh water	Algae	72 hours
	Acute LC50 3580000 μg/l Fresh water Acute LC50 >100 mg/l Fresh water Acute NOEC >100 mg/l Fresh water Acute NOEC 100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish Algae Fish	48 hours 96 hours 72 hours 96 hours

### 12.2 Persistence and degradability

Not available.

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Disodium hydrogenorthophosphate	-5.8	-	Low

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# Section 12. Ecological information

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

### 13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA	:	Not regulated.
Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

# Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
SCA 8(a) CDR Exempt/Partial exemption: Not determined	
lean Water Act (CWA) 311: Disodium hydrogenorthophosphate	
ot listed	
ot listed	
ot listed	

# Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

### **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

### SARA 311/312

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### Classification : Not applicable.

### **Composition/information on ingredients**

Name	%	Classification
	≤3	EYE IRRITATION - Category 2B

### **State regulations**

Massachusetts	: The following components are listed: PHOSPHORIC ACID, DISODIUM SALT
New York	: The following components are listed: Sodium phosphate, dibasic
New Jersey	Phe following components are listed: SODIUM PHOSPHATE, DIBASIC; DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-
Pennsylvania	: The following components are listed: PHOSPHORIC ACID, DISODIUM SALT
California Prop. 65	

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.

# Section 15. Regulatory information

Thailand	: 🕅 components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

# Section 16. Other information

### Procedure used to derive the classification

	Classification	Justification	
Not classified.			
History			
Date of issue/Date of revision	: 10/27/2023		
Date of previous issue	: 12/07/2020		
Version	: 3.2		
Key to abbreviations	IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition c MARPOL = International Convention for the Prever	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available</li> </ul>	

**V** Indicates information that has changed from previously issued version.

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