## Adrenaline 1:10,000

# **CAROLINA**®

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Adrenaline 1:10,000 Science education applications Epinephrine, Aqueous Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

#### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

## WARNING



Harmful in contact with skin.

**GHS Classification:** Acute Toxicity - Dermal Category 4

#### **Composition / Information on Ingredients**

CAS #

7732-18-5

7647-01-0

51-43-4

%

99.98

0.01

0.01

Chemical Name Water Hydrogen Chloride (R)-Epinephrine

**Section 3** 

Section 4

## First Aid Measures

#### **Emergency and First Aid Procedures**

Inhalation: Eyes: Skin Contact: Ingestion: In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

#### Section 5

#### **Firefighting Procedures**

Extinguishing Media:	Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

#### **Section 6**

#### **Spill or Leak Procedures**

Steps to Take in Case Material Is **Released or Spilled:** 

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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.

#### **Section 7**

#### Handling and Storage

Handling:	Wear protective gloves/protective clothing/eye protection/face protection.
Storage:	Keep container tightly closed in a cool, well-ventilated place.
	Store this product in air-tight containers.
	Store away from light. Material is photodegradable.
Storage Code:	Blue - Toxic. Store separately in a secured area.

orage Code:

ection 8

#### Protection Information

	ACGIH			IA PEL
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)
Epinephrine	N/A	N/A	N/A	N/A

**Control Parameters Engineering Measures:** 

Personal Protective Equipment (PPE): **Respiratory Protection:** Eye Protection:

Skin Protection:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Lab coat, apron, eve wash, safety shower,

No respiratory protection required under normal conditions of use.

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

No information available

#### Section 9

Gloves:

### Physical Data

Formula: C9H13NO3(aq) Molecular Weight: 183.21 Appearance: Colorless Liquid Odor: None Odor Threshold: No data available **pH:** No data available Melting Point: 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

#### Reactivity Data

Reactivity: Chemical Stability: **Conditions to Avoid:** Incompatible Materials: Hazardous Polymerization: No data available Stable under normal conditions. Exposure to light. Exposure to air. Keep lid tightly closed when not in use. Water-reactive materials Will not occur

#### Section 11

Section 10

Routes of Entry Symptoms (Acute):

Eyes and skin Tachycardia

#### Toxicity Data

Delayed Effects:	No data available					
Acute Toxicity: Chemical Name Water		<b>CAS Number</b> 7732-18-5	Oral LD50 Oral LD50 Rat	Dermal LD50	Inhalation LC50	
Hydrogen Chloride		7647-01-0	90000 mg/kg Oral LD50 Rabbit 900 mg/kg		INHALATION LC50 Rat 3700 ppm INHALATION LC50 Mouse 1108 ppm INHALATION LC50 Rat 45000 MG/M3 INHALATION LC50 Rat 8300 MG/M3	
Epinephrine		51-43-4		Dermal LD50 Rat 62 mg/kg		
Carcinogenicity: Chemical Name Hydrogen Chloride Epinephrine		<b>CAS Number</b> 7647-01-0 51-43-4	IARC Not listed Not listed	NTP Not listed Not listed	OSHA Not listed Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. No information available, Cardiovascular system No data available					
Section 12		Ε	cological Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	This material is not expected to be harmful to the ecology. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. Evaporation into atmosphere, dissolved in water., Photodegradation Bioconcentration is not expected to occur. Biodegrades very quickly. No data					
<b>Chemical Name</b> Water Hydrogen Chloride Epinephrine		CAS NumberEco Toxicity7732-18-5No data available7647-01-096 HR LC50 GAMBUSIA AFFINIS 282 MG/L [STATIC]51-43-4				
Section 13		Disp	osal Informati	on		
Disposal Methods: Waste Disposal Code	con	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined				
Section 14		Tran	sport Informat	ion		
Ground - DOT Proper Not regulated for transp			Air - IATA Proper S Not regulated for air			
Section 15		Regu	latory Informa	tion		
TSCA Status:	All	components in this p	product are on the TSCA	Inventory.		

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Hydrogen Chloride	7647-01-0	Hydrochloric acid	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	500 lb TPQ (gas only)	No
Epinephrine	51-43-4	No	No	1000 lb final RQ; (454 kg)	No	No

#### Section 16

Revised: 09/09/2015

#### Replaces: 01/06/2015

#### Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Additional Information** 

#### Glossary

Ciocoury			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health