



## **SPUTOLYSIN TEST – MSDS**

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### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Manufacturer:**  
Caldon Biotech, Inc.

**Chemical Family:**  
Caustic Solution

1647 Andorre Glen  
Escondido, CA 92029

**Catalog Number:**  
CSPU-010  
**Product Name:**  
Statpak Sputolysin Test  
**Synonyms:**  
Sputolysin Test Concentrate

**Formula:**  
Solution  
**Molecular Weight:**  
Solution  
**Preparation Date:**  
**Date MSDS Printed:** 01/01/10  
**Revision History:** 01/01/10  
**Information Phone Number:**  
(760) 727-7177  
**Hours:** M-F 8:30am-5pm (Pacific Time)

### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Component		Approx %
Sodium Hydroxide	7%	1310-73-2
Water	85%	7732-18-5
Phosphoric Acid	7%	7664-38-2
1, 4-Dithioerythritol	1%	6892-68-8

### **3. HAZARDS IDENTIFICATION**

**Emergency Overview:**.....Causes Severe Burns.  
Harmful if Inhaled or Swallowed.

**Appearance:** Liquid

#### **POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)**

**Symptoms of Exposure:**

Causes burns on contact. Harmful if inhaled or swallowed.

**Medical Condition Aggravated by Exposure:**

None indicated.

**Routes of Entry:**

Inhalation, Ingestion

**Carcinogenicity:**

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

### **4. FIRST AID MEASURES**

**Emergency First Aid:** GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

**Skin:** Immediately flush thoroughly with large amounts of water.

Remove contaminated clothing a wash before reuse.

**Eyes:** Immediately flush thoroughly with water for at least 15 minutes.

**Inhalation:** Remove to fresh air; give artificial respiration if breathing has stopped.

**Ingestion:** Do not induce vomiting; if conscious, give water freely and get medical attention.

### **5. FIRE FIGHTING MEASURES**

**Flash Point (F):** N/A

**Flammable Limits LEL (%):** N/A

**Flammable Limits UEL (%):** N/A

**Extinguishing Media:** Use any suitable for adjacent material.

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**Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.  
**Fire & Explosion Hazards:** Can react with certain metals (Al, Sn, Mg, Cu, etc.) to release explosive hydrogen gas.

#### 6. ACCIDENTAL RELEASE MEASURES

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

**Spill\_Response:** Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to regulatory information for reportable quantity and other regulatory data

#### 7. HANDLING AND STORAGE

Keep container closed.

Do not breathe solution mist.

Do not get in eyes, on skin, or on clothing.

Store away from acids and metals.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

**Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

If workplace exposure limit(s) of product, or any component is exceeded (see TLV/PEL), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves must be worn to prevent skin contact (Neoprene or equivalent). Safety glasses with side shields must be worn at all times. Impervious protective clothing should be worn to prevent skin contact.

**Work / Hygienic Practices:**

Wash Thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

##### EXPOSURE GUIDELINES

OSHA - PEL:

COMPONENT	TWA		STEL	CL
	PPM	MG/M <sup>3</sup>	PPM	MG/M <sup>3</sup>
Sodium Hydroxide 2 Water				
Phosphoric Acid		1	3	
1, 4-Dithioerythritol				

ACGIH - TLV:

COMPONENT	TWA		STEL	CL
	PPM	MG/M <sup>3</sup>	PPM	MG/M <sup>3</sup>
Sodium Hydroxide				
1, 4-Dithioerythritol				

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point (C 760 mmHg):**

**Melting Point (C):**



Specific Gravity (H<sub>2</sub>O = 1):  
Vapor Pressure (mm Hg):  
Percent Volatile by Vol (%):  
Vapor Density (Air=1):  
Evaporation Rate (BuAc = 1):  
Solubility in Water (%) Soluble  
Appearance: Liquid

#### 10. STABILITY AND REACTIVITY

Stability: Yes  
Hazardous Polymerization: Does not occur  
Hazardous decomposition: None Indicated  
Conditions to Avoid: Heat  
Materials to Avoid: ( ) Water

Materials to Avoid(cont):	( X ) Acids
	( ) Bases
	( ) Corrosives
	( ) Oxidizers
	( ) Other: Metals, organic halogens, nitro compounds, Al, Sn, Zn

#### 11. TOXICOLOGICAL INFORMATION

Toxicity Data: None Established  
Toxicological Findings: None cited in Registry of Toxic Effects of Chemical Substances (RTECS)

#### 12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

Treatment: Material does not have an EPA Waste number and is not a listed waste, however, consultation with a permitted waste disposal site (TSD) should be accomplished.

**ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS.**

#### 13. TRANSPORT INFORMATION

DOT Proper shipping name: Corrosive Liquid, n.o.s. (contains Sodium Hydroxide & Phosphoric Acid)

DOT ID Number: UN1760

#### 14. REGULATORY INFORMATION

**TSCA Statement:** This product is a "mixture". The CAS numbers of all components are listed on the TSCA Inventory.

	SARA	SARA	CERCLA
Component	EHS (302)	EHS TPQ (lbs)	RQ (lbs)

**Sodium Hydroxide**

**Water**

**Phosphoric Acid**

**1, 4-Dithioerythritol**

	OSHA	SARA	DeMinimis
Component	Floor List	313	For SARA 313 (%)
Sodium Hydroxide	Y		



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Water

Phosphoric Acid

1, 4-

Dithioerythritol

Y

Y

10

#### 15. OTHER INFORMATION

Comments: None

#### NFPA Hazard Ratings

Health: 1

Flamability 0

Reactivity 0

Special Hazards 0

Revision History 2/17/99

#### Revised Section

1 = Revised Section

N/A = Not Available

N/A = None Established

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