



# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name: ProtoBlue Safe

Product Number: EC-722

### 1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

### 1.3 Details of the Supplier of the Safety Data Sheet

#### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30036  
(404) 699-2121  
(800) 526-3867  
info@nationaldiagnostics.com

### 1.4 Emergency Telephone Number

#### ChemTel Inc.

Contract number MIS8894340  
1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands)  
01-800-099-0731 (Mexico)  
400-120-0751 (China)  
000-800-100-4086 (India)  
1-300-954-583 (Australia)  
0-800-591-6042 (Brazil)  
+1-813-255-3924 (All other regions)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

### 2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

### 2.3 Other Hazards

None found.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

#### Chemical Names/Description

Colloidal suspension of coomassie G-250 powdered stain (<1%) with citric acid and ammonium sulfate.

#### Component List

Component	% Comp.	CAS #	EC #	1278/2008 Classification
Trisodium Citrate	2 - 5	68-04-2	200-675-3	N.A.

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### Ingestion

Do not induce vomiting unless directed by medical personnel.

#### Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

**Inhalation**

Irritation, pain.

**Ingestion**

Vomiting, diarrhea, prostration.

**Skin**

Itching, redness, pain.

**Eyes**

Itching, redness, pain.

**4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

Unknown/not applicable

**SECTION 5 - FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Use media appropriate to the primary cause of fire.

**5.2 Special Hazards Arising from the Substance/Mixture****Hazardous Combustion Products**

N.A.

**Hazardous Decomposition Products**

N/A

**Hazardous Polymerization**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

**5.3 Advice for Firefighters**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

**5.4 Further Information**

No data available.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions**

Wear appropriate protective equipment as specified in Section 8.

**6.2 Environmental Precautions**

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

**6.3 Methods and Materials for Containment and Cleaning Up**

Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal.

**6.4 References to Other Sections**

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

**SECTION 7 - HANDLING AND STORAGE****7.1 Precautions for Safe Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

**7.2 Conditions for Safe Storage (including any incompatibles)**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

**Incompatibles**

Strong oxidizers.

**7.3 Specific End Uses**

Investigational research by professional users

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS****8.1 Control Parameters**

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit (PEL): None established

**8.2 Exposure Controls****Engineering Controls**

Not expected to require any special ventilation.

### Respiratory Protection

Not expected to require personal respirator usage.

### Eye Protection

Safety glasses.

### Skin Protection

Wear protective gloves and clean body covering clothing.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical & Chemical Properties

a. Appearance	Blue solution	b. Odor	None
c. Odor Threshold	N.A.	d. pH	2-3
e. Melting/Freezing Point (°C)	0	f. Boiling point (°C)	no data
g. Flash Point (°C)	No data	h. Evaporation Rate	no data
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	No data
k. Vapor Pressure	water	l. Vapor Density (Air = 1)	3.4
m. Relative Density	no data	n. Water Solubility	miscible in water
o. Partition Coefficient n-octanol/water	Mixture	p. Autoignition Temperature (°C)	No data
q. Decomposition Temperature (°C)	N.A.	r. Viscosity	No data available.
s. Explosive Properties	N.A.	t. Oxidizing Properties	Not an oxidizer

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

Non reactive under recommended conditions of use and storage.

### 10.2 Chemical Stability

Stable under ordinary conditions of usage.

### 10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### 10.4 Conditions to Avoid

In compatibles

### 10.5 Incompatible Materials

Strong oxidizers.

### 10.6 Hazardous Decomposition Products

N/A

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Product LD50 Values

#### Oral Rat LD50 (mg/kg)

21000

#### Dermal Rabbit LD50 (mg/kg)

### Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Trisodium Citrate	No	No	None

### Potential Health Effects

#### Inhalation

Inhalation of large amounts of dust left after solvent evaporation may cause irritation to the respiratory tract.

#### Ingestion

Very large doses can cause vomiting, diarrhea, and prostration. Dehydration and congestion occur in most organs. Hypertonic solutions can produce violent inflammatory reactions in the gastrointestinal tract.

#### Skin

Possible irritation on prolonged contact with moist or sensitive areas of the skin.

#### Eyes

Causes irritation, redness, and pain.

#### Carcinogenicity

Not listed as a known or anticipated carcinogen by NTP or IARC.

#### Mutagenicity

No information found.

#### Reproductive Toxicity

No information found.

#### Teratogenic Effects

No information found.

#### Routes of Entry

No information found.

#### Target Organ Statement

No information found.

### SECTION 12 - ECOLOGICAL INFORMATION

#### 12.1 Toxicity

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	LC50(48hr, golden orfe) 440- 760 mg/L	No data	No data	TT>10g/l
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	NOEC (gallus domesticus, 4 day) >4g/kg	No data	No data	No data

#### 12.2 Persistence and Degradability

Readily biodegradable, 97% elimination in 28 days

#### 12.3 Bioaccumulative Potential

Calculated BCF 0.5

#### 12.4 Mobility in Soil

No data

#### 12.5 Results of PBT and vPvB Assessment

Not PBT or vPvB

#### 12.6 Other Adverse Effects

None

### SECTION 13 - DISPOSAL CONSIDERATIONS

#### 13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

### SECTION 14 - TRANSPORT INFORMATION

	ADR/RID	IATA	IMO	DOT
14.1 UN Number	N.A.	N.A.	N.A.	N.A.
14.2 Shipping Name	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.3 Hazard Class	N.A.	N.A.	N.A.	N.A.
14.4 Packing Group	N.A.	N.A.	N.A.	N.A.
14.5 Environmental Hazards	N.A.	N.A.	N.A.	N.A.
14.6 Special Precautions	N.A.	N.A.	N.A.	N.A.

### SECTION 15 - REGULATORY INFORMATION

#### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture

##### United States

##### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

**SARA 311/312 Hazard Categories**

<b>Component</b>	<b>Fire</b>	<b>Pressure</b>	<b>Reactivity</b>	<b>Acute</b>	<b>Chronic</b>
Trisodium Citrate	No	No	No	No	No

**Europe****EEC Regulatory**

All intentional ingredients are listed on the European EINECS Inventory.

**SECTION 16 - OTHER INFORMATION****Revisional Updates**

4/26/2019 - Updated Section 1.4

5/29/2015 - Updated Sections 2.1 and 3.2

10/25/2013 - Released Version 1.0

**NFPA Codes**

Health 1 Flammability 0 Reactivity 0

**Dangers**

Trisodium Citrate

None

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