

# SAFETY DATA SHEET



Conforms to regulation (EC) no. EU 453/2010

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

### 1.1 Product Identifier

**Product Name:** ProtoGel Sample Prep Kit - Reagent B

**Product Number:** EC-884B

### 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

**Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

H315 - Skin Corrosion/Irritation (Category 2)

H319 - Serious Eye Damage/Eye Irritation (Category 2A)

H400 - Acute Hazards to the Aquatic Environment (Category 1)

### 2.2 Label Elements

#### GHS LABEL ELEMENTS AND CLASSIFICATION

##### GHS Label Elements



#### WARNING

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

P273 - Avoid release to the environment.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

### 2.3 Other Hazards

None found.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture

#### Chemical Names/Description

Solution of Proprietary Salt

## Component List

Component	% Comp.	CAS #	EC #	1278/2008 Classification
Proprietary Salt	15-20%			H315, H319, H400

## 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

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

#### 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

Coughing, choking, with variable symptoms of headache, dizziness, and weakness.

#### Ingestion

Symptoms may include nausea, vomiting and diarrhea.

#### Skin

Symptoms include redness, itching, and pain.

#### Eyes

Redness and 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

Not applicable.

### 5.2 Special Hazards Arising from the Substance/Mixture

#### Hazardous Combustion Products

Not applicable.

#### Hazardous Decomposition Products

When heated to decomposition it emits toxic fumes.

#### Hazardous Polymerization

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

### 5.3 Advice for Firefighters

Not applicable.

### 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

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

## 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

Alkali metals, chloral hydrate, acids tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

## 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 listed

### OSHA Permissible Exposure Limit (PEL):

none listed

## 8.2 Exposure Controls

### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

### Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### 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	Aqueous Solution	b. Odor	None
c. Odor Threshold	N.A.	d. pH	Not available.
e. Melting/Freezing Point (°C)	0	f. Boiling point (°C)	100
g. Flash Point (°C)	N.A.	h. Evaporation Rate	Not available.
i. Flammability	N.A.	j. Upper/Lower Flammability or Explosive Limits	N.A.
k. Vapor Pressure	Not available.	l. Vapor Density (Air = 1)	Not available.
m. Relative Density	Not available.	n. Water Solubility	Soluble.

<b>o. Partition Coefficient n-octanol/water</b>	Mixture	<b>p. Autoignition Temperature (°C)</b>	N.A.
<b>q. Decomposition Temperature (°C)</b>	Not applicable.	<b>r. Viscosity</b>	No data available.
<b>s. Explosive Properties</b>	N.A.	<b>t. Oxidizing Properties</b>	Not an oxidizer

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

May act as a reducing agent. Reacts with strong acids.

### 10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

### 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

Light and incompatibles.

### 10.5 Incompatible Materials

Alkali metals, chloral hydrate, acids tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

### 10.6 Hazardous Decomposition Products

When heated to decomposition it emits toxic fumes.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Product LD50 Values

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

28933

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

No Data

### Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Proprietary Salt	No	No	None

### Potential Health Effects

#### Inhalation

Inhalation of dust from evaporated solution may lung irritation. May cause lung edema.

#### Ingestion

Causes irritation to the gastrointestinal tract.

#### Skin

Causes irritation to skin.

#### Eyes

Causes irritation.

### Carcinogenicity

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

### Mutagenicity

No information found.

### Reproductive Toxicity

Large repeated doses for treatment of asthma in pregnancy has resulted in fetal death, severe goiter and cretanoid appearance of the newborn.

## 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 (96hours, trout): 2800	LC50 (48hrs, Daphnia):0.17mg/L	LOEC: 66mg/L	LOEC 5850 mg/L
	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	LC50 (24 hrs) 8900ug/g	No data	No data

### 12.2 Persistence and Degradability

No data

### 12.3 Bioaccumulative Potential

No data

### 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	3082	3082	3082	N.A.
14.2 Shipping Name	Environmentally hazardous	Environmentally hazardous	Environmentally hazardous	Not regulated.
14.3 Hazard Class	Substance, liquid, N.O.S.	Substance, liquid, N.O.S.	Substance, liquid, N.O.S.	N.A.
14.4 Packing Group	Class 9 PG III	Class 9 PG III	Class 9 PG III	N.A.
14.5 Environmental Hazards	N.A.	N.A.	Not regulated	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

Component	Fire	Pressure	Reactivity	Acute	Chronic
Proprietary Salt	No	No	No	No	No

#### Europe

## EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

## SECTION 16 - OTHER INFORMATION

### Revisional Updates

8/8/2023 - Updated Section 14.5

4/26/2019 - Updated Section 1.4

5/29/2015 - Updated Sections 2.1 and 3.1

8/12/2013 - Released Version 1.0

### NFPA Codes

Health 1 Flammability 0 Reactivity 0

### Dangers

#### Proprietary Salt

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

**MANUFACTURER DISCLAIMER:** The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.