

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 A

Product Number: EC-884A

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

Agent

AGTC Bioproducts
Unit 4 Fleet Business Park
Itlings Lane, Hessle
East Riding of Yorkshire HU139LX
44(0) 1482 646020
office@agtcbioproducts.com

1.4 Emergency Telephone Number

Chemtrec

1-800 424-9300 (U.S. & Canada)
01-703-527-3887 (outside U.S. & Canada)

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)
H318 - Serious Eye Damage/Eye Irritation (Category 1)
H400 - Acute Hazards to the Aquatic Environment (Category 1)

2.2 Label Elements

GHS LABEL ELEMENTS AND CLASSIFICATION

GHS Label Elements



DANGER

H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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 Ammonium Salt

Component List

Component	% Comp.	CAS #	EC #	1278/2008 Classification
Proprietary Ammonium Salt	25			H315, H318, H400
Water	75	7732-18-5	231-791-2	N.A.

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Skin

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation

Proprietary Ammonium Salt:

Coughing, shortness of breath.

Water:

No information found.

Ingestion

Proprietary Ammonium Salt:

Nausea, vomiting, diarrhea.

Water:

No information found.

Skin

Proprietary Ammonium Salt:

Symptoms include redness, itching, and pain.

Water:

No information found.

Eyes

Proprietary Ammonium Salt:

Redness, itching and pain.

Water:

No information found.

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

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymeriation

Will not occur.

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

Proprietary Ammonium Salt:

Strong oxidizing agents.

Water:

No incompatibility data found.

7.3 Specific End Uses

Investigational research by professional users

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

8.1 Control Parameters

Component: Proprietary Ammonium Salt

ACGIH Threshold Limit Value (TLV): none listed

OSHA Permissible Exposure Limit (PEL): none listed

Component: Water

ACGIH Threshold Limit Value (TLV): None established

OSHA Permissible Exposure Limit (PEL): None established

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 substance is apparent, consult an industrial hygienist. For emergencies or instances where the exposure levels are not known use a full-facepiece 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
o. Partition Coefficient n-octanol/water	Mixture	p. Autoignition Temperature (°C)	N.A.

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

May react with aldehydes, acid chlorides.

10.2 Chemical Stability

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions

Will not occur.

10.4 Conditions to Avoid

Excess heat.

10.5 Incompatible Materials

Proprietary Ammonium Salt:

Strong oxidizing agents.

Water:

No incompatibility data found.

10.6 Hazardous Decomposition Products

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product LD50 Values

Oral Rat LD50 (mg/kg)

No Data

Dermal Rabbit LD50 (mg/kg)

4300 uL/kg/24H

Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Proprietary Ammonium Salt	No	No	None
Water	No	No	None

Potential Health Effects

Inhalation

Proprietary Ammonium Salt

Causes irritation to the respiratory tract.

Water

No information found.

Ingestion

Proprietary Ammonium Salt

Harmful if swallowed. Specific health effects from ingestion unknown. May cause irritation to the gastrointestinal tract.

Water

No information found.

Skin

Proprietary Ammonium Salt

Causes irritation to skin.

Water

No information found.

Eyes

Proprietary Ammonium Salt

Causes severe irritation to eyes. May cause corneal damage.

Water
No information found.

Carcinogenicity

Proprietary Ammonium Salt
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

Water
No information available.

Mutagenicity

Proprietary Ammonium Salt
No information available.

Water
No information available.

Reproductive Toxicity

Proprietary Ammonium Salt
No information available.

Water
No information available.

Teratogenic Effects

Proprietary Ammonium Salt
No information available.

Water
No information available.

Routes of Entry

Proprietary Ammonium Salt
No information available.

Water
No information available

Target Organ Statement

Proprietary Ammonium Salt
No information available.

Water
No information available

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

COMPONENT: Proprietary Ammonium Salt

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	LC50 (96 hr, zebrafish) 0.7-1.0 mg/L	EC50 (48hr, Daphnia) 0.28mg/L	EC50 (96 hrs) 0.1mg/L	EC50 (16hrs) 0.96mg/L

	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No Data	EC50 (16day, S. alba) 537mg/kg soil	EC50 (28 day) >1000mg/kg soil

COMPONENT: Water

	Vertebrates	Invertebrates	Algae	Microorganisms
Aquatic Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data

	Birds	Arthropods	Plants	Microorganisms
Terrestrial Environment Toxicity (ppm unless otherwise noted)	No data	No data	No data	No data

12.2 Persistence and Degradability

Proprietary Ammonium Salt
Readily biodegradable (92% at 28 days)

Water
No data

12.3 Bioaccumulative Potential

Proprietary Ammonium Salt
Log BCF: 1.85

Water
No data

12.4 Mobility in Soil

Proprietary Ammonium Salt
likely to be immobile in soil

Water
No data

12.5 Results of PBT and vPvB Assessment

Proprietary Ammonium Salt
Not PBT or vPvB

Water
No data

12.6 Other Adverse Effects

Proprietary Ammonium Salt
None

Water
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 substance, liquid, N.O.S.	Environmentally hazardous substance, liquid, N.O.S.	Environmentally hazardous substance, liquid, N.O.S.	Not Regulated
14.3 Hazard Class	9	9	9	N.A.
14.4 Packing Group	III	III	III	N.A.
14.5 Environmental Hazards	N.A.	N.A.	Marine pollutant	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 Ammonium Salt	No	No	No	No	No
Water	No	No	No	No	No

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

SECTION 16 - OTHER INFORMATION

Revisional Updates

5/29/2015 - Updated Sections 2.1 and 3.2
7/10/2013- Released Version 1.0

NFPA Codes

Health 3 Flammability 0 Reactivity 0

Dangers

Proprietary Ammonium Salt

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H400 - Very toxic to aquatic life.

Water

None

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.