

# SAFETY DATA SHEET



## ColoHealth Lysis Binding Buffer

### 1. Identification

**Product identifier** SDS0014US  
**Other means of identification** Reagent.  
**Product code** None known.  
**Recommended use**  
**Recommended restrictions**

### Manufacturer/Importer/Supplier/Distributor information

**Company name** New Day Diagnostics, LLC  
**Address** 6701 Baum Dr., Ste. 110  
Knoxville, TN 37919  
**Telephone** 1-865-299-6205  
**Fax**

**Emergency phone number** For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC  
1-800-424-9300 / +1 703-527-3887 CCN 840878

### 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards**

Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation	Category 4
Skin corrosion/irritation	Category 4
Serious eye damage/eye irritation	Category 2
Not classified.	Category 1

### OSHA defined hazards Label elements



**Signal word** Danger

**Hazard statement** Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye damage.

### Precautionary statement

**Prevention** Avoid breathing mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**

Contact with acids liberates very toxic gas.

**Supplemental information**

None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Guanidinium thiocyanate	593-84-0	30 - 60
Polyethylene glycol octylphenol ether	9002-93-1	< 25

#### Composition comments

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume..

### 4. First-aid measures

#### Inhalation

Move into fresh air and keep at rest. For breathing difficulties, oxygen may be necessary. Get medical attention if symptoms persist.

#### Skin contact

#### Eye contact

Wash off immediately with plenty of water. Immediately remove contaminated clothing. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.

#### Ingestion

#### Most

#### important

#### symptoms/eff

#### ects, acute

#### and delayed

Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.

Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

#### Indication of immediate medical attention and special treatment needed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

#### General information

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Unsuitable extinguishing media

#### Specific hazards arising from the chemical

Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

#### Special protective equipment and precautions for firefighters

By heating and fire, harmful vapors/gases may be formed. Sulfur oxides. Nitrogen oxides.

#### Fire fighting equipment/instructions

Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

#### General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to keep fire-exposed containers cool.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Local authorities should be advised if significant spillages cannot be contained. Avoid inhalation of vapors and spray mist and contact with skin and eyes. For personal protection, see section 8 of the SDS.

#### Methods and materials for containment and cleaning up

Dike far ahead of spill for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see section 13 of the SDS.

#### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10 of the SDS). Store in original tightly closed container. Store in a cool and well-ventilated place.

## 8. Exposure controls/personal protection

### Occupational exposure limits

No exposure limits noted for ingredient(s).

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Provide adequate ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash fountain and emergency showers are recommended.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

##### Skin protection

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.

#### Thermal hazards

When material is heated, wear gloves to protect against thermal burns.

### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands after handling and before eating. Keep away from food and drink.

## 9. Physical and chemical properties

### Appearance

#### Physical state

Liquid.

#### Form

Liquid.

#### Color

Colorless.

#### Odor

Odorless.

#### Odor threshold

Not available.

#### pH

6.5

#### Melting point/freezing point

Not available.

#### Initial boiling point and boiling range

Not available.

#### Flash point

Not applicable.

#### Evaporation rate

Not available.

#### Flammability (solid, gas)

Not applicable.

#### Upper/lower flammability or explosive limits

##### Flammability limit - lower (%)

Not applicable.

Not applicable.

##### Flammability limit - upper (%)

#### Vapor pressure

Not available.

#### Vapor density

Not available.

#### Relative density

Not available.

<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.

<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

**Other information**

<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

**10. Stability and reactivity**

**Reactivity**

<b>Chemical stability</b>	The product reacts with: Acids.
<b>Possibility of hazardous reactions</b>	Stable under normal temperature conditions. Contact with acids liberates toxic gas.
<b>Conditions to avoid</b>	
<b>Incompatible materials</b>	Contact with incompatible materials.
<b>Hazardous decomposition products</b>	Oxidizing agents. Acids. Hydrogen cyanide. Carbon oxides. Nitrogen oxides. Sulfur oxides.

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Inhalation</b>	Harmful if inhaled.
<b>Skin contact</b>	Harmful in contact with skin. Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Harmful if swallowed.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
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**Information on toxicological effects**

<b>Acute toxicity</b>	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.	
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<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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Guanidinium thiocyanate (CAS 593-84-0)

**Acute**  
**Oral**

LD50	Female Rat	593 mg/kg
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<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitization</b>	Not a skin sensitizer.

<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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<b>Carcinogenicity</b>	Not classified by IARC, ACGIH, NTP or OSHA.
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**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

**NTP Report on Carcinogens**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not regulated.

<b>Reproductive toxicity</b>	Test data conclusive but not sufficient for classification.
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**Specific target organ toxicity - single exposure** Test data conclusive but not sufficient for classification.  
Test data conclusive but not sufficient for classification.

**Specific target organ toxicity - repeated exposure**

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components		Species	Test Results
Guanidinium thiocyanate (CAS 593-84-0)			
<b>Aquatic</b>			
Algae	EC50	Desmodemus subspicatus	130 mg/l, 72 hours
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	42.4 mg/l, 48 hours
Fish	LC50	Guppy (Poecilia reticulata)	89.1 mg/l, 96 hours
Polyethylene glycol octylphenol ether (CAS 9002-93-1)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	LC50	Daphnia magna	>= 44 mg/l, 48 hours
Fish	LC50	Fish	16 mg/kg

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** This product is water soluble and may disperse in soil.

**Mobility in general** The product is water soluble and may spread in water systems.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose of in accordance with local regulations.

**Local disposal regulations** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Hazardous waste code**

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

**DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

**Toxic Substances Control Act (TSCA)** All components of the mixture on the TSCA 8(b) inventory are designated "active".

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. Massachusetts RTK - Substance List

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Not regulated.

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Polyethylene glycol octylphenol ether (CAS 9002-93-1)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

ColoHealth Lysis Binding Buffer

SDS0014US Version #: 06 Revision date: 28-October-2024 Issue date: 20-December-2012

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**Issue date**  
**Revision date**

20-December-2012  
28-October-2024



**Version #**

06

**Further information**

None known.

**Disclaimer**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. Polymedco Cancer Diagnostic Products, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.