Students,

Please have your Dr. look over these MSDS sheets and then return the "Student Medical Release Form" to your instructor before you can continue with lab. GPC cannot be responsible for medical problems due to conditions that may be compromised by contact with chemicals that are used in our labs.

If you are pregnant, trying to get pregnant, or suffer from an immune deficiency problem, you need to have the medical form filled out by your doctor and submitted to your instructor at the time of your next lab. If you have any other health issue that you feel that you would want your Dr. to clear you on, please have them review the MSDS sheets and contact you if they foresee any problems. They can also fill out the medical form and email it back to you.

If you have any questions, please feel free to contact me, Mrs. J. Peiffer at 678-891-3753

Thanks,

J. Peiffer
Biology Lab Supervisor
GSU – Perimeter College
Clarkston campus
555 North Indian Creek
Drive Clarkston, Ga. 30021



# **Student Medical Release Form**

hereby release(Student name)
Lab at Georgia Perimeter College for (Semester & year-e.g. Fall 09).
ating that the chemicals listed in this packet are safe for be in close proximity of it.
Date

Please return this form to your instructor, who will then make a copy of it and return  $\underline{\text{the original}}$  to the  $\underline{\text{Lab Supervisor}}$ .

Science Department GSU - Perimeter College Clarkston campus 555 North Indian Creek Drive, Clarkston, GA-30021 678-891-3766



## **Albumin**

**Revised:** 12/01/2011 **Replaces:** 09/23/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Albumin Powder

**Product Code(s):** 84-2250, 84-2252, 20-2501, 20-2340, 20-2341, 20-2500, 97-2934, 97-4102

Size: 1oz, 2oz, 120g, 150g, 500g Chemical Name: Egg, Albumin CAS Number: 9048-46-8

Formula: N/A

Synonyms: Egg White, (Spray Dried)

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## Section 2 - Hazard Identification

Emergency Overview: Non-Hazardous under normal use.

Potential Health Effects:

Eyes: May cause irritation.

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Albumin

**TLV units:** N/A **PEL units:** N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

**NFPA Rating:** 

Product Name: Albumin Page 1 of 3

Health: 1 Fire: 1 Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

## **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

#### **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** After contact with skin, wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): Not Normally Required

**Ventilation:** 

Local Exhaust: Yes Mechanical(General): Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:N/AVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

**Solubility in Water:** Soluble **Appearance and Odor:** Odorless white solid.

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: None Known

**Incompatibility (Materials to Avoid):** N/A **Hazardous Decomposition Products:** N/A **Hazardous Polymerization:** Will not occur

## **Section 11 - Toxicity Data**

Toxicity Data: N/A
Effects of Overexposure:
Acute: See Section 2
Chronic: N/A

Conditions Aggravated by Overexposure: Respiratory disorders,

Target Organs: N/A

**Primary Route(s) of Entry:** Inhalation and ingestion.

Product Name: Albumin Page 2 of 3

## Section 12 - Ecological Data

**EPA Waste Numbers:** N/A

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category: Albumin - No Albumin - No

CERCLA Section 103 RQ(lb.): Albumin - No

RCRA Section 261.33: Albumin - No

#### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

Product Name: Albumin Page 3 of 3



## Benedict's Solution, Qualitative

**Revised:** 11/18/2011 **Replaces:** 11/17/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

**Product Name:** Benedict's Solution, Qualitative

**Product Code(s):** 84-7111, 84-7113, 20-2340, 20-2341, 20-2345, 20-2500, 20-2501, 84-1112, 10-1026, 84-1137, 97-4038

Size: 30 mL, 120 mL, 500 mL, 4 L

**Chemical Name:** Does not apply, product is a mixture.

**CAS Number:** See Section 3 **Formula:** See Section 3 **Synonyms:** None known.

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## Section 2 - Hazard Identification

Emergency Overview: N/A Potential Health Effects:

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Copper (II) Sulfate (CAS# 7758-98-7) 1.5%; Sodium Citrate (CAS# 68-04-2) 15.1%;

Sodium Carbonate (CAS# 497-19-8) 8.7%; Water, (CAS# 7732-18-5) Balance

**TLV units:** ACGIH-TLV (Copper (II) Sulfate) 1 mg(Cu)/m3 (TWA) **PEL units:** OSHA-PEL (Copper (II) Sulfate) 1 mg(Cu)/m3 (TWA)

## Section 4 - First Aid Measures

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Product Name: Benedict's Solution, Qualitative Page 1 of 4

Flash Point (Method Used): N/A

NFPA Rating: Health: 1 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Avoid contact with skin and eyes.

Keep away from oxidizing materials and strong acids.

Avoid contact with clothing.

Do not breathe gas/fumes/vapour/spray.

Harmful if swallowed.

After contact with skin, wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes Mechanical(General): Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:Approximately 110-120 °CVapor Pressure:N/A

**Vapor Density(Air=1):** 0.7 (Water) **Specific Gravity (H2O=1):** 1.145 at 20 °C **Percent Volatile by Volume:** N/A **Evaporation Rate (BuAc=1):** N/A

Solubility in Water: Soluble Appearance and Odor: Dark Blue, odorless solution.

## **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Acids, Oxidizers,

Hazardous Decomposition Products: NOx, SOx, COx,

Hazardous Polymerization: Will not occur

Product Name: Benedict's Solution, Qualitative Page 2 of 4

## **Section 11 - Toxicity Data**

Toxicity Data: (Sodium Carbonate) orl-rat LD50 4090 mg/kg

(Sodium Citrate) itp-rat LD50 1724 mg/kg (Cupric Sulfate) orl-rat LD50 300 mg/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Reproductive data cited. Mutation data cited. Tumorigenic

data cited.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: Inhalation.

## **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Sodium Carbonate: NoSodium Carbonate: NoSodium Citrate: NoSodium Citrate: NoCupric Sulfate: NoCupric Sulfate: Copper

CERCLA Section 103 RQ(lb.): Sodium Carbonate: No

Sodium Citrate: No Cupric Sulfate: 10

RCRA Section 261.33: Sodium Carbonate: No

Sodium Citrate: No Cupric Sulfate: No

## **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

Product Name: Benedict's Solution, Qualitative Page 3 of 4

N/ANot Available

NTP

National Toxicology Program Occupational Safety and Health Administration **OSHA** 

Permissible Exposure Limit PEL

Parts per million ppm RCRA

Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act Threshold Limit Value SARA

TLV Toxic Substances Control Act **TSCA** 

Product Name: Benedict's Solution, Qualitative



## **Biuret Reagent**

**Revised:** 11/18/2011 **Replaces:** 11/17/2011 **Printed:** 12/01/2011

# **Carolina Biological Supply Company**

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Biuret Reagent

**Product Code(s):** 84-8209, 84-8211, 84-8213, 84-8215, 20-2340, 20-2341, 10-1026

Size: 30 ml (1oz), 100 mL, 500 mL, 4 L

Chemical Name: See Section 3
CAS Number: See Section 3
Formula: See Section 3
Synonyms: None known

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

Emergency Overview: DANGER - Causes severe burns. Harmful if swallowed.

**Potential Health Effects:** 

**Eyes:** Causes severe burns and eye damage upon direct

contact. Vapor is irritating.

**Ingestion:** May severely irritate or damage digestive tract.

**Skin:** May cause severe irritation or chemical burns.

**Inhalation:** May severely irritate or damage mucous membranes and respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Ethylene Glycol (CAS# 107-21-1) 9.3%; Copper Sulfate, 5-Hydrate (CAS# 7758-99-8)

1.7%; Sodium Hydroxide (CAS# 1310-73-2) 16.7%

TLV units: ACGIH-TLV (Cupric Sulfate, 5-Hydrate) 1 mg(Cu)/m3 (TWA)

ACGIH-TLV (Ethylene Gylcol) 100 mg/m3 (Ceiling) ACGIH-TLV (Sodium Hydroxide) 2 mg/m3 (Ceiling)

PEL units: OSHA-PEL (Cupric Sulfate, 5-Hydrate) 1 mg(Cu)/m3 (TWA)

OSHA-PEL (Ethylene Glycol) 50 ppm (Ceiling) OSHA-PEL (Sodium Hydroxide) 2 mg/m3 (TWA)

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Product Name: Biuret Reagent Page 1 of 4

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

NFPA Rating: Health: 3 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

## Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Keep locked up and out of the reach of children.

Avoid contact with skin.

Harmful if swallowed. Keep container tightly closed in a cool, well-ventilated place.

Store in a secure area suitable for corrosives.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Acceptable Mechanical(General): Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight: N/A

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

Solubility in Water: Soluble Appearance and Odor: Dark Blue, odorless solution.

## **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Acids, Water-reactive Material,

Hazardous Decomposition Products: COx, Metal Fumes,

Hazardous Polymerization: Will not occur

Product Name: Biuret Reagent Page 2 of 4

## **Section 11 - Toxicity Data**

Toxicity Data: (Cupric Sulfate, 5-Hydrate) orl-rat LD50 300 mg/kg

(Ethylene Glycol) ihl-hmn TCLo: 10000 mg/m3 (Ethylene Glycol) orl-hmn LDLo: 398 mg/kg (Sodium Hydroxide) ipr-mus LD50: 40 mg/kg (Sodium Hydroxide) orl-rbt LDLo: 500 mg/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Mutation data cited.

Conditions Aggravated by Overexposure: N/A

Target Organs: Skin, Liver, Kidneys, Central Nervous System,

Primary Route(s) of Entry: Inhaltion and skin contact.

## **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** UN1824, Sodium hydroxide solution, 8, II

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Reaction Acute

Name List: Chemical Category:

Cupric Sulfate, 5-Hydrate: No

Sodium Hydroxide: No

Ethylene Glycol: Yes

Cupric Sulfate, 5-Hydrate: Copper Compound
Sodium Hydroxide: No

Ethylene Glycol: No

CERCLA Section 103 RQ(lb.): Cupric Sulfate, 5-Hydrate: 10

Sodium Hydroxide: 1000 Ethylene Glycol: 5000

RCRA Section 261.33: Cupric Sulfate, 5-Hydrate: No

Sodium Hydroxide: No Ethylene Glycol: No

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

Product Name: Biuret Reagent Page 3 of 4

DOT U.S. Department of Transportation

**IARC** International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

Occupational Safety and Health Administration **OSHA** 

Permissible Exposure Limit **PEL** 

Parts per million ppm

**RCRA** 

Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act **SARA** 

Threshold Limit Value TLV

**TSCA** Toxic Substances Control Act

> Product Name: Biuret Reagent Page 4 of 4



## **Specimens in Carosafe®**

**Revised:** 10/14/2011 **Replaces:** 10/13/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Specimens in Carosafe®

**Product Code(s):** Various

Size: Various

Chemical Name: N/A CAS Number: See Section 3 Formula: See Section 3

**Synonyms:** N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

Emergency Overview: Harmful by inhalation and if swallowed. Irritating to eyes and skin.

**Potential Health Effects:** 

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Propylene Glycol (CAS# 57-55-6); 2-amino-2-ethyl-1,3-propanediol (CAS# 115-70-8);

Ethylene Glycol Phenyl Ether (CAS# 122-99-6); The specimen will contain some residual formaldehyde;

**TLV units:** (Propylene Glycol) N/A (2-amino-2-ethyl-1,3-propanediol) N/A (Ethylene Glycol Phenyl Ether) N/A (Formaldehyde) ACGIH-TLV 0.3 ppm

**PEL units:** (Propylene Glycol) OSHA-PEL N/A (2-amino-2-ethyl-1,3-propanediol) OSHA-PEL N/A (Ethylene Glycol Phenyl Ether) OSHA-PEL N/A

(Formaldehyde) OSHA-PEL 0.75 ppm

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. **Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If

Product Name: Specimens in Carosafe® Page 1 of 4

swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

**NFPA Rating:** Health: 0 Fire: 1 **Reactivity:** 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

Avoid contact with skin and eyes. Avoid contact with clothing.

Do not breathe gas/fumes/vapour/spray.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A

NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes Mechanical(General): Yes

Special: No Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### Section 9 - Physical Data

Molecular Weight: N/A **Melting Point:** N/A **Boiling Point:** N/A Vapor Pressure: N/A Vapor Density(Air=1): N/A Specific Gravity (H2O=1): >1 Percent Volatile by Volume: N/A Evaporation Rate (BuAc=1): N/A

Solubility in Water: Soluble **Appearance and Odor:** Colorless, odorless solution.

## Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

**Incompatibility (Materials to Avoid):** Water-reactive Material, Oxidizers, Metals, Heavy Metals, Bases,

**Hazardous Decomposition Products:** COx, NOx,

Product Name: Specimens in Carosafe® Page 2 of 4 Hazardous Polymerization: Will not occur

#### **Section 11 - Toxicity Data**

Toxicity Data: (Propylene Glycol) orl-rat LD50 20,000 mg/kg

(Formaldehyde) orl-rat LD50 500 mg/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Certain components or species of this product are considered potential carcinogens. Mutation data cited.

Reproductive data cited. Tumorigenic data cited. **Conditions Aggravated by Overexposure:** N/A

Target Organs: N/A

**Primary Route(s) of Entry:** Ingestion, skin and eye contact.

### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

**Hazard Category for SARA Section 311/312 Reporting:** 

WARNING: This product contains a chemical known to the state of California to cause cancer. Chronic Acute

Name List:

Propylene Glycol - No Formaldehyde - Yes 2-amino-2-ethyl-1,3-propanediol - No Ethylene Glycol Phenyl Ether - No **Chemical Category:** 

Propylene Glycol - No Formaldehyde - No 2-amino-2-ethyl-1,3-propanediol - No Ethylene Glycol Phenyl Ether - No

CERCLA Section 103 RQ(lb.): Propylene Glycol - No

Formaldehyde - 100

2-amino-2-ethyl-1,3-propanediol - No Ethylene Glycol Phenyl Ether - No

RCRA Section 261.33: Propylene Glycol - No

Formaldehyde - Yes

2-amino-2-ethyl-1,3-propanediol - No Ethylene Glycol Phenyl Ether - No

#### **Section 16 - Additional Information**

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Glossary

Product Name: Specimens in Carosafe® Page 3 of 4

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act

SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value

TSCA Toxic Substances Control Act

Product Name: Specimens in Carosafe®

Page 4 of 4



## Dextrose, Anhydrous

**Revised:** 11/18/2011 **Replaces:** 10/13/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Dextrose, Anhydrous

Product Code(s): 17-1025, 20-2200, 20-2500, 20-2051, 85-7430, 85-7442, 85-7450, 85-7451, 85-7452, 84-0550, 84-0996,

84-0491, 10-1026, 25-1012, PD1031, C61411, C71928, C70137, C19346, C70510

Size: Various

Chemical Name: Dextrose CAS Number: 50-99-7 Formula: C6H12O6

Synonyms: D-Glucose, Grape Sugar, Corn Sugar

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## Section 2 - Hazard Identification

Emergency Overview: Non-Hazardous under normal use.

Potential Health Effects: Eyes: May cause irritation.

Eyes: May cause irritation. Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Dextrose, Anhydrous

**TLV units:** N/A **PEL units:** N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Product Name: Dextrose, Anhydrous Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: None

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Do not breathe dust.

Keep container dry.

After contact with skin, wash immediately with plenty of water.

Harmful if swallowed. Keep container tightly closed in a cool, well-ventilated place.

### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A

NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

Local Exhaust: Preferred

Mechanical(General): Acceptable

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:198.17 g/molMelting Point:146 °CBoiling Point:DecomposesVapor Pressure:N/A

Vapor Density(Air=1): 6.3 Specific Gravity (H2O=1): 1.544
Percent Volatile by Volume: 0% Evaporation Rate (BuAc=1): N/A

**Solubility in Water:** Slightly Soluble **Appearance and Odor:** White, odorless crystals.

#### **Section 10 - Reactivity Data**

Stability: Stable

 $\textbf{Conditions to Avoid:} \ \ \textbf{Explosive when mixed with oxidising substances}.$ 

**Incompatibility (Materials to Avoid):** Oxidizers, **Hazardous Decomposition Products:** COx, **Hazardous Polymerization:** Will not occur

#### **Section 11 - Toxicity Data**

Toxicity Data: orl-rt LD50: 25,800 mg/kg

**Effects of Overexposure:** 

Product Name: Dextrose, Anhydrous Page 2 of 3

**Acute:** See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Mutation data cited. Reproductive data cited.

Conditions Aggravated by Overexposure: None Known

**Target Organs:** No information available **Primary Route(s) of Entry:** Inhalation.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

No No

CERCLA Section 103 RQ(lb.): No

RCRA Section 261.33: No

#### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

Product Name: Dextrose, Anhydrous Page 3 of 3



## Hydrochloric Acid, 0.1 - 1M

**Revised:** 11/18/2011 **Replaces:** 10/13/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



#### **Section 1 - Product Description**

**Product Name:** Hydrochloric Acid, 0.1M to 1M

**Product Code(s):** 86-7821, 86-7823, 86-7841, 86-7843, 974462A, 974068, C847841, C70521, C30911, C36067, C30047, C71227, C71228, C847843, C10065, C30874, C71945, C71925, C55148, C70519, C70987, C70520, C71915, C71517,

C19323 **Size:** Various

Chemical Name: Hydrochloric Acid

**CAS Number:** 7647-01-0

Formula: HC1

Synonyms: Muriatic Acid Solution, Hydrochloric Acid 0.1N to 1N

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

**Emergency Overview:** Causes burns. Harmful in contact with skin and if swallowed.

**Potential Health Effects:** 

**Eyes:** Causes severe burns and eye damage upon direct **Skin:** May cause severe irritation or chemical burns.

contact. Vapor is irritating.

**Ingestion:** May severely irritate or damage digestive tract. **Inhalation:** May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

**Principal Hazardous Components:** Hydrochloric Acid(CAS#7647-01-0) 0.4 - 4%, Water (balance)

**TLV units:** HCl: ACGIH-TLV 2 ppm ceiling **PEL units:** HCl: OSHA-PEL 5 ppm ceiling

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Product Name: Hydrochloric Acid, 0.1 - 1M Page 1 of 3

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): Non-combustible

NFPA Rating: Health: 2 Fire: 0 Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

## **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

### **Section 9 - Physical Data**

Molecular Weight: N/A Melting Point: Approximately •0.1°C

**Boiling Point:** 99.9°C **Vapor Pressure:** N/A

**Vapor Density(Air=1):** N/A **Specific Gravity (H2O=1):** N/A **Percent Volatile by Volume:** 99.9+ **Evaporation Rate (BuAc=1):** 0.36

Solubility in Water: Soluble Appearance and Odor: Clear, colorless liquid; pungent, choking

odor.

#### **Section 10 - Reactivity Data**

**Stability:** Stable

Conditions to Avoid: Heat and sources of ignition.

Metals,

Incompatibility (Materials to Avoid): Bases, Alkalis, Amines,

Hazardous Decomposition Products: HCl, Hazardous Polymerization: Will not occur

#### **Section 11 - Toxicity Data**

Product Name: Hydrochloric Acid, 0.1 - 1M Page 2 of 3

Toxicity Data: For this solution, not known

**Effects of Overexposure: Acute:** See Section 2

**Chronic:** Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Conditions Aggravated by Overexposure: Respiratory disorders,

Target Organs: N/A

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** D002

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** Hydrochloric acid, solution

## **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Hydrochloric acid - YesHydrochloric acid - No

CERCLA Section 103 RQ(lb.): Hydrochloric acid - 5000

RCRA Section 261.33: Hydrochloric acid - No

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value TSCA Toxic Substances Control Act

Product Name: Hydrochloric Acid, 0.1 - 1M Page 3 of 3



## **Iodine Potassium Iodide Solution**

**Revised:** 11/18/2011 **Replaces:** 11/16/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Iodine Potassium Iodide

Product Code(s): 86-9051, 86-9053, 86-9055, 20-2220, 20-2340, 20-2341, 20-2500, 20-2501, 74-6410, 95-7860, 74-6410,

20-6078, B5997, B6080, B6085, 20-2335, 20-6000, 20-6070, 20-2275, 10-1026, C70531

Size: 30ml, 100ml, 500ml Chemical Name: N/A CAS Number: See Section 3 Formula: See Section 3

**Synonyms:** N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## Section 2 - Hazard Identification

**Emergency Overview:** Harmful by inhalation, in contact with skin and if swallowed.

Potential Health Effects:

Eves: May couse irritation

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Iodine (CAS#7553-56-2) 1%, Potassium Iodide (CAS# 7681-11-0) 2%, Water (balance)

**TLV units:** (Iodine) ACGIH-TLV 0.1 ppm (Ceiling) **PEL units:** (Iodine) OSHA-PEL 0.1 ppm (Ceiling)

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

**Eyes** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious).

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Product Name: Iodine Potassium Iodide Solution Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 1 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:N/AVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:97%Evaporation Rate (BuAc=1):N/A

Solubility in Water: Soluble Appearance and Odor: Deep amber liquid with slight

characteristic odor of iodine.

## **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: N/A

**Incompatibility (Materials to Avoid):** N/A **Hazardous Decomposition Products:** N/A **Hazardous Polymerization:** Will not occur

#### **Section 11 - Toxicity Data**

Toxicity Data: (Potassium Iodide) orl-mouse LDLo 1862 mg/kg

(Iodine) orl-rat LD50 14 g/kg

Product Name: Iodine Potassium Iodide Solution Page 2 of 3

**Effects of Overexposure: Acute:** See Section 2

Chronic: Mutation data cited. Reproductive data cited. Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

**Target Organs:** N/A

Primary Route(s) of Entry: N/A

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Potassium Iodide - NoPotassium Iodide - No

Iodine - No

CERCLA Section 103 RQ(lb.): Potassium Iodide - No

Iodine - No

RCRA Section 261.33: Potassium Iodide - No

Iodine - No

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value TSCA Toxic Substances Control Act

Product Name: Iodine Potassium Iodide Solution Page 3 of 3



## LITMUS SOLUTION, pH INDICATOR

**Revised:** 10/13/2011 **Replaces:** 07/13/2010 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Litmus Solution, pH indicator

**Product Code(s):** 87-2712

Size: 500 mL

Chemical Name: Litmus CAS Number: 1393-92-6 Formula: See Section 3

**Synonyms:** 7-Hydroxy-2-phenazone

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## **Section 2 - Hazard Identification**

Emergency Overview: Non-Hazardous under normal use.

Potential Health Effects: Eyes: May cause irritation.

Eyes: May cause irritation. Skin: May cause irritation to skin.

**Ingestion:** May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Litmus Solution, pH indicator (CAS#1393-92-6) 0.7%; Sodium Benzoate (CAS#532-32-

1) 0.2%

**TLV units:** N/A **PEL units:** N/A

## **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Product Name: LITMUS SOLUTION, pH INDICATOR Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Avoid direct sunlight and heat.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight: N/AMelting Point: Freezes 0°CBoiling Point: Approx. 100°CVapor Pressure: 14 (water)

**Vapor Density(Air=1):** 0.7 (water) **Specific Gravity (H2O=1):** Approx. 1.0 **Percent Volatile by Volume:** 99.1% **Evaporation Rate (BuAc=1):** >1.

**Solubility in Water:** Soluble **Appearance and Odor:** Reddish to purple, odorless solution

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: Heat and sources of ignition. Incompatibility (Materials to Avoid): Oxidizers, Hazardous Decomposition Products: N/A Hazardous Polymerization: Will not occur

#### **Section 11 - Toxicity Data**

**Toxicity Data:** N/A **Effects of Overexposure:** 

Product Name: LITMUS SOLUTION, pH INDICATOR Page 2 of 3

**Acute:** See Section 2 **Chronic:** N/A

Conditions Aggravated by Overexposure: Respiratory disorders, Gastrointestinal,

**Target Organs:** Eyes, Respiratory system, Gastrointestinal tract, **Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

## **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

Litmus - No Litmus - No

CERCLA Section 103 RQ(lb.): Litmus - No

RCRA Section 261.33: Litmus - No

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value TSCA Toxic Substances Control Act

Product Name: LITMUS SOLUTION, pH INDICATOR Page 3 of 3



## **Pancreatin**

**Revised:** 01/05/2012 **Replaces:** 08/01/2011 **Printed:** 01/05/2012

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Pancreatin

**Product Code(s):** 87-8928, 87-8929, 87-8930, 20-2340, 20-2341, 84-1131, C71492

**Size:** 1 oz., 100 g, 120 g Chemical Name: Pancreatin IX **CAS Number:** 8049-47-6 Formula: See Section 3

Svnonvms: Diatase vera; Creon; Pancreas; Pancrex Vet

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Hazard Identification

**Emergency Overview:** Irritating to respiratory system.

**Potential Health Effects: Eyes:** May cause irritation.

**Ingestion:** Harmful if swallowed. **Inhalation:** Irritating to respiratory system.

## **Section 3 - Composition / Information on Ingredients**

**Skin:** Irritating to skin.

**Principal Hazardous Components:** Pancreatin (CAS# 8049-47-6)

**TLV units:** N/A PEL units: N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Product Name: Pancreatin Page 1 of 4

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

NFPA Rating: Health: 1 Fire: 1 Reactivity: 0

**Extinguisher Media:** Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature: N/A** 

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: N/A

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

#### **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: N/A Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight: N/A Melting Point: Decomposes on heating

**Boiling Point:** Decomposes Vapor Pressure: N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

**Solubility in Water:** Slightly Soluble **Appearance and Odor:** Yellow powder with faint odor.

#### **Section 10 - Reactivity Data**

**Stability:** Stable

**Conditions to Avoid:** Avoid Dusting. May become explosive when dispersed in air.

Incompatibility (Materials to Avoid): Acids, Alcohols,

**Hazardous Decomposition Products:** COx, **Hazardous Polymerization:** Will not occur

Product Name: Pancreatin Page 2 of 4

## **Section 11 - Toxicity Data**

**Toxicity Data:** orl-rat LD50 > 10g/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:Chemical Category:Pancreatin - NoPancreatin - No

CERCLA Section 103 RQ(lb.): Pancreatin - No

RCRA Section 261.33: Pancreatin - No

#### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

Product Name: Pancreatin Page 3 of 4

RCRA

Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act Threshold Limit Value SARA

TLV TSCA Toxic Substances Control Act



**Pepsin**, 0.5%

**Revised:** 10/13/2011 **Replaces:** 06/23/2011 **Printed:** 12/01/2011

# **Carolina Biological Supply Company**

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

**Product Name:** Pepsin Solution **Product Code(s):** 97-4088A

Size: 250 ml

**Chemical Name:** Pepsin Solution **CAS Number:** 9001-75-6

Formula: N/A

Synonyms: none known

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

## Section 2 - Hazard Identification

Emergency Overview: Non-Hazardous under normal use.

Potential Health Effects: Eyes: May cause irritation.

Eyes: May cause irritation. Skin: May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

**Principal Hazardous Components:** To the best of our knowledge, this product is non-hazardous and is not subject of the requirements of 29 CFR 1910.1200; Pepsin (CAS # 9001-75-6) 0.5%

**TLV units:** 

**PEL units:** None established.

## **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

Product Name: Pepsin, 0.5% Page 1 of 3

**NFPA Rating:** Health: 1 Fire: 0

Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: None

## **Section 6 - Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Do not ingest or take internally. Suitable for any general chemical storage.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

Local Exhaust: Acceptable Mechanical(General): Yes

Special: No Other: No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight: N/A **Melting Point:** approx. 0°C (32°F)

**Boiling Point:** approx. 100°C (212°F) Vapor Pressure: N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): approx. 1 **Percent Volatile by Volume:** N/A Evaporation Rate (BuAc=1): N/A Solubility in Water: Soluble Appearance and Odor: Clear liquid.

## **Section 10 - Reactivity Data**

**Stability:** Stable

Conditions to Avoid: None Known

Incompatibility (Materials to Avoid): Water-reactive Material,

Hazardous Decomposition Products: COx, Hazardous Polymerization: Will not occur

## **Section 11 - Toxicity Data**

Toxicity Data: N/A **Effects of Overexposure:** Acute: See Section 2

Chronic: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Conditions Aggravated by Overexposure: None Known

Product Name: Pepsin, 0.5% Page 2 of 3 Target Organs: N/A

Primary Route(s) of Entry: Ingestion, skin and eye contact.

## **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

DOT Proper Shipping Name: Not Regulated

## **Section 15 - Regulatory Information**

EPA TSCA Status: Not on TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: N/A

Name List: Chemical Category:

No No

CERCLA Section 103 RQ(lb.): No

RCRA Section 261.33: No

## **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value TSCA Toxic Substances Control Act

Product Name: Pepsin, 0.5% Page 3 of 3



# Simulated Antisera

**Revised:** 10/13/2011 **Replaces:** 05/09/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Simulated Antisera

**Product Code(s):** 70-0170, 70-0171, 70-0172

Size: 7 mL

Chemical Name: Inorganic Salts in Aqueous Solution

CAS Number: N/A Formula: N/A Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

# **Section 2 - Hazard Identification**

Emergency Overview: Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe

gas/fumes/vapour/spray. **Potential Health Effects: Eves:** May cause irritation

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: No hazard under normal usage.

# Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Simulated Antisera

**TLV units:** N/A **PEL units:** N/A

# **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

# **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

Product Name: Simulated Antisera Page 1 of 3

**NFPA Rating:** Health: 1 Fire: 0

Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

## **Section 6 - Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): Not Normally Required

Ventilation:

Local Exhaust: No Mechanical(General): Yes

Special: No Other: No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

**Molecular Weight:** N/A **Melting Point:** N/A **Boiling Point:** Approx. 100 °C Vapor Pressure: N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): N/A Percent Volatile by Volume: N/A **Evaporation Rate (BuAc=1):** N/A

Solubility in Water: Soluble **Appearance and Odor:** Colorless, odorless solution.

# **Section 10 - Reactivity Data**

Stability: Stable

**Conditions to Avoid:** N/A

Incompatibility (Materials to Avoid): Acids, Metals,

**Hazardous Decomposition Products:** N/A Hazardous Polymerization: Will not occur

### **Section 11 - Toxicity Data**

**Toxicity Data:** N/A **Effects of Overexposure:** Acute: See Section 2 Chronic: N/A

Conditions Aggravated by Overexposure: N/A Target Organs: Respiratory system, Skin, Eyes,

> Product Name: Simulated Antisera Page 2 of 3

Primary Route(s) of Entry: Ingestion, skin and eye contact.

## **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

# **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

N/A N/A

CERCLA Section 103 RQ(lb.): N/A

RCRA Section 261.33: N/A

# Section 16 - Additional Information

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value TSCA Toxic Substances Control Act

Product Name: Simulated Antisera Page 3 of 3



# **Simulated Blood**

**Revised:** 10/13/2011 **Replaces:** 05/04/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Simulated Blood

**Product Code(s):** 70-0173, 70-0176, 70-0177, 70-0178, 70-0179, 70-0181, 70-0183, 70-0184

Size: Various

Chemical Name: N/A, product is a mixture

CAS Number: N/A

Formula: N/A, product is a mixture

Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

**Emergency Overview:** Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray. Irritating to eyes, r

espiratory system and skin. **Potential Health Effects:** 

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

#### **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: The composition of this mixture is proprietary and is protected as a Trade Secret.

**TLV units:** N/A **PEL units:** N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, wash immediately with plenty of water.

Ingestion - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

# **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

Product Name: Simulated Blood Page 1 of 3

**NFPA Rating:** Health: 0 Fire: 0

Reactivity: 0

Extinguisher Media: Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-

contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): Not Normally Required

**Ventilation:** 

Local Exhaust: No Mechanical(General): Yes

Special: No Other: No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. Eye Protection: Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

**Molecular Weight:** N/A **Melting Point:** N/A **Boiling Point: N/A** Vapor Pressure: N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): N/A Percent Volatile by Volume: N/A **Evaporation Rate (BuAc=1):** N/A

Solubility in Water: Soluble **Appearance and Odor:** Red solution; odorless.

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Acids, Bases, Water-reactive Material,

**Hazardous Decomposition Products:** N/A Hazardous Polymerization: Will not occur

### **Section 11 - Toxicity Data**

**Toxicity Data:** N/A **Effects of Overexposure:** Acute: See Section 2 Chronic: N/A

Conditions Aggravated by Overexposure: N/A

**Target Organs:** N/A

Product Name: Simulated Blood Page 2 of 3 **Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

#### **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

N/A N/A

CERCLA Section 103 RQ(lb.): N/A

RCRA Section 261.33: N/A

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

Product Name: Simulated Blood Page 3 of 3



# **Simulated Urine High**

**Revised:** 10/13/2011 **Replaces:** 05/04/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

**Product Name:** Simulated Urine High **Product Code(s):** 69-5834, 69-5830, 69-5953

Size: Various

Chemical Name: N/A, product is a mixture

CAS Number: N/A

Formula: N/A, product is a mixture

Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

# **Section 2 - Hazard Identification**

Emergency Overview: Avoid contact with skin and eyes.

Potential Health Effects: Eyes: May cause irritation.

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

# **Section 3 - Composition / Information on Ingredients**

**Principal Hazardous Components:** Urea (CAS# 57-13-6), <10%

**TLV units:** N/A **PEL units:** N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Ingestion - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

**NFPA Rating:** 

Product Name: Simulated Urine High Page 1 of 3

Health: 0 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

# **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): Not Normally Required

**Ventilation:** 

**Local Exhaust:** No **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:N/AVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

**Solubility in Water:** Soluble **Appearance and Odor:** Pale yellow, odorless liquid.

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Acids, Bases, Water-reactive Material,

**Hazardous Decomposition Products:** N/A **Hazardous Polymerization:** Will not occur

#### **Section 11 - Toxicity Data**

Toxicity Data: N/A
Effects of Overexposure:
Acute: See Section 2
Chronic: N/A

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

Product Name: Simulated Urine High Page 2 of 3

## Section 12 - Ecological Data

**EPA Waste Numbers:** N/A

#### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

#### **Section 15 - Regulatory Information**

**EPA TSCA Status:** Not on TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

N/A N/A

CERCLA Section 103 RQ(lb.): N/A

RCRA Section 261.33: N/A

#### **Section 16 - Additional Information**

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Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

Product Name: Simulated Urine High Page 3 of 3



# **Simulated Urine**

**Revised:** 10/13/2011 **Replaces:** 05/04/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

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## **Section 1 - Product Description**

**Product Name:** Simulated Urine Low **Product Code(s):** 69-5834, 69-5830, 69-5954

Size: Various

Chemical Name: N/A, product is a mixture

CAS Number: N/A

Formula: N/A, product is a mixture

Synonyms: N/A

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

# **Section 2 - Hazard Identification**

**Emergency Overview:** Avoid contact with skin and eyes.

Potential Health Effects:

Eves: May cause irritation

**Eyes:** May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. Inhalation: May cause irritation to respiratory tract.

# **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: To the best of our knowledge, this product is non-hazardous and is not subject to the

requirements of 29 CFR 1910.1200

**TLV units:** N/A **PEL units:** N/A

# **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eves - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

# **Section 5 - Firefighting Procedures**

Product Name: Simulated Urine Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-

contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): Not Normally Required

Ventilation:

**Local Exhaust:** No **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:N/ABoiling Point:N/AVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

Solubility in Water: Soluble Appearance and Odor: Pale yellow, odorless liquid.

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Acids, Bases, Water-reactive Material,

**Hazardous Decomposition Products:** N/A **Hazardous Polymerization:** Will not occur

# **Section 11 - Toxicity Data**

Toxicity Data: N/A
Effects of Overexposure:
Acute: See Section 2

Chronic: N/A

Conditions Aggravated by Overexposure: N/A

Product Name: Simulated Urine Page 2 of 3

Target Organs: N/A

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

# **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

### **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

# **Section 15 - Regulatory Information**

**EPA TSCA Status:** Not on TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

N/A N/A

CERCLA Section 103 RO(lb.): N/A

RCRA Section 261.33: N/A

# **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

Product Name: Simulated Urine Page 3 of 3



# Starch

**Revised:** 12/01/2011 **Replaces:** 10/13/2011 **Printed:** 12/01/2011

# Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



## **Section 1 - Product Description**

Product Name: Starch

**Product Code(s):** 89-2530, 89-2532, 89-2534, 89-2550, 89-2560, 89-2501, 89-2503, 97-2114, 97-2901, 97-2928, 97-2101,

89-2529, C11018, C70274

Size: Various

Chemical Name: Carbohydrate (Starch)

**CAS Number:** 9005-25-8 **Formula:** See Section 3

Synonyms: Soluble Starch, Corn Starch

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

# Section 2 - Hazard Identification

Emergency Overview: Non-Hazardous under normal use.

Potential Health Effects:

Eves: May cause irritation

**Eyes:** May cause irritation. **Skin:** Non-Hazardous under normal use.

**Ingestion:** Not expected to be harmful by ingestion. 
Inhalation: May cause irritation to respiratory tract.

# **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Starch (CAS# 9005-25-8) 100%; To the best of our knowledge, this product is non-

hazardous and is not subject to the requirements of 29 CFR 1910.1200.

TLV units: ACGIH-TLV 10 mg/m3

PEL units: OSHA-PEL 15 mg/m3 (total dust); 5 mg/m3 (respirable fraction)

# Section 4 - First Aid Measures

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

**Ingestion** - If swallowed, rinse mouth with water (only if the person is conscious).

**Inhalation** - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

# **Section 5 - Firefighting Procedures**

Product Name: Starch Page 1 of 3

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 1 Reactivity: 0

**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air.

Fire or excessive heat may produce hazardous decomposition products.

# Section 6 - Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.

Keep away from sources of ignition - No smoking.

Harmful by inhalation and if swallowed.

Avoid contact with skin and eyes.

# **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A

NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

#### **Section 9 - Physical Data**

Molecular Weight:N/AMelting Point:DecomposesBoiling Point:N/AVapor Pressure:N/A

Vapor Density(Air=1):N/ASpecific Gravity (H2O=1):N/APercent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

**Solubility in Water:** Soluble **Appearance and Odor:** White, odorless crystals.

### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: Avoid dusting.

**Incompatibility (Materials to Avoid):** Oxidizers, **Hazardous Decomposition Products:** COx, **Hazardous Polymerization:** Will not occur

#### **Section 11 - Toxicity Data**

**Toxicity Data:** ipr-mus LD50 6600 mg/kg

Product Name: Starch Page 2 of 3

**Effects of Overexposure: Acute:** See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: N/A

**Target Organs:** Respiratory system, Skin, Eyes, Gastrointestinal tract, **Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

# **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

# **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: N/A

Name List: Chemical Category:

Starch - No Starch - No

CERCLA Section 103 RQ(lb.): Starch - No

RCRA Section 261.33: Starch - No

# Section 16 - Additional Information

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Product Name: Starch Page 3 of 3