## **Barritt's Reagent A**

# www.carolina.c

### **Product Description**

**Product Name: Recommended Use:** Synonyms: Distributor:

**Section 1** 

Barritt's Reagent A Science education applications Voges-Proskauer Test Reagent Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

**Chemical Information: Chemtrec:** 

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Highly flammable liquid and vapor. Toxic in contact with skin. Causes serious eye damage. Causes damage to organs. Toxic to aquatic life.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Dermal Category 3

Other Safety Precautions:	IF exposed: Call a POISON CENTER or doctor/physician.
Acute Toxicity Oral Contains Acute Toxicity Dermal Contains	90.975 % of the mixture consists of ingredient(s) of unknown toxicity 85.975 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	90.975 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	90.975 % of the mixture consists of ingredient(s) of unknown toxicity

### **Composition / Information on Ingredients**

CAS #

#### Chemical Name

Ethanol

**Section 3** 

\*\*\*Denaturants (trace)\*\*\* Isopropanol (CAS# 67-63-0) Methanol (CAS # 67-56-1)

#### %

### Section 4

### **First Aid Measures**

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

Section 5	Firefighting Procedures
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.

### Firefighting Procedures

Barritt's Reagent A

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Fire Fighting Methods and Protection	
Fire and/or Explosion Hazards:	Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
Section 6	Spill or Leak Procedures
Steps to Take in Case Material Is	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away.

Contain spilled liquid with sand clay. DO NOT use combustible materials such as sawdust. Contain the discharged material. Do not allow the spilled product to enter public drainage system or open waterways.

### Section 7 Handling and Storage

Handling:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed.
	Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting//
	equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe
	dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this
	product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face
	protection. Avoid contact with skin and eyes.
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Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

#### Section 8

**Released or Spilled:** 

### **Protection Information**

	ACO	<u>GIH</u>	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A	
1-Naphthol	N/A	N/A	Ň/A	N/A	
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A	

Control Parameters Engineering Measures:

**Respiratory Protection:** 

Respirator Type(s):

Eye Protection:

Skin Protection:

Personal Protective Equipment (PPE):

Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use.

NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter. Wear chemical splash goggles when handling this product. Have an eye wash station available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Butyl rubber, Natural latex,, Neoprene, Nitrile, Polyvinyl chloride

### **Section 9**

Gloves:

**Physical Data** 

Formula: See Section 3 Molecular Weight: N/A Appearance: Dark Red Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available

pH: No data available Melting Point: -114 C Boiling Point: 79 C Flash Point: 13 C Flammable Limits in Air: 3.3% 3.3 - - 19% (Ethanol) 19%

### Section 10

#### Solubility in Water: Soluble Slightly Soluble Log Pow (calculated): -0.32 Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 95%

Evaporation Rate (BuAc=1): 1.70 No data available

### **Reactivity Data**

Vapor Pressure: N/A

Specific Gravity: < 1

Vapor Density (Air=1): 1.59

Reactivity: Chemical Stability: Conditions to Avoid:	No data available Stable under normal conditions. Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Exposure to light. Exposure to air. Keep lid tightly closed when not in
Incompatible Materials:	use. Organic Peroxides, Strong acids, Oxidizing materials, Strong oxidizing agents, Caustics (bases)
Hazardous Decomposition Products: Hazardous Polymerization:	Carbon dioxide, Carbon monoxide Will not occur

Toxicity Data

### **Section 11**

Routes of Entry

Symptoms (Acute):

**Delayed Effects:** 

Acute Toxicity:

Inhalation and ingestion., Inhalation, ingestion, eye or skin contact. Liver disorders, Impaired Kidney Function, Central Nervous System Disorders No data available

Chemical Name 1-Naphthol	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol		Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol		Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol		Listed	Listed	Listed
1-Naphthol		Not listed	Not listed	Not listed
2-Propanol		Listed	Not listed	Not listed
Methanol		Not listed	Not listed	Not listed
Chronic Effects:				

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	Liver, Kidneys, Blood, Central Nervous System, Eyes
Chronic:	Listed by NTP, IARC as causing cancer., Reproductive data cited.
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### Section 12

**Overview:** 

# Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways.

**Ecological Data** 

Mobility: Persistence:

waterways. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. Dissolved into water, Biodegradation, Photodegradation

Bioconcentration is not expected to occur. Biodegrades quickly. No data

Chemical Name Ethanol	CAS Number	Eco Toxicity 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
1-Naphthol		Aquatic LC50 (96h) Bluegill Sunfish 0.75 MG/L
2-Propanol		96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L
		96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]
		48 HR EC50 DAPHNIA MAGNA 13299 MG/L
		72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
		96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol		96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

### Section 13

### **Disposal Information**

Disposal Methods:

Waste Disposal Code(s):

**Bioaccumulation:** 

**Other Adverse Effects:** 

Degradability:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

### Section 14

### **Transport Information**

**Regulatory Information** 

Ground - DOT Proper Shipping Name: UN1170 ETHANOL SOLUTIONS CLASS 3 PG II Air - IATA Proper Shipping Name: UN number: 1170 Class: 3 Packing group: II Proper shipping name: Ethanol solution

### Section 15

## TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol		No	No	No	No	No
1-Naphthol		No	No	No	No	No
2-Propanol		Isopropyl alcohol	No	No	No	No
Methanol		No	No	No	No	No

California Prop 65:

**Section 16** 

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## Additional Information

#### Revised: 09/09/2015

#### Replaces: 05/29/2015

#### Printed: 10-29-2015

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.

#### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health