1-Naphthol Solution

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Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

1-Naphthol Solution Science education applications Alpha-Naphthol Solution 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. Harmful in contact with skin. Causes serious eye damage. Causes damage to organs. Harmful 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 3, Acute Toxicity - Dermal Category 4

Other Safety Precautions:

IF exposed: Call a POISON CENTER or doctor/physician.

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains 86.67625 % of the mixture consists of ingredient(s) of unknown toxicity 81.67625 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Section 4

First Aid Measures

Emergency and Firs Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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. Wash contaminated clothing before reuse.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Section 5	Firefighting Procedures

Extinguishing Media:

Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Hazards: Hazardous Combustion Products:	Fire or excessive heat may produce hazardous decomposition products.				
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide				
Section 6	Spill or Leak Procedures				
	No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS				

Follow personal protective equipment recommendations found in Section 8 of this (M)SDS 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. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

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 direct sunlight and heat.
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 Protection Information

	ACC	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

handling or using this product to avoid overexposure.

Lab coat, apron, eye wash, safety shower.

respirator is not normally required.

available.

Nitrile

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection:

Respirator Type(s):

Eye Protection:

Skin Protection:

Gloves:

Section 9

Physical Data

Formula: See Section 3 Molecular Weight: No data available Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available

Local exhaust ventilation or other engineering controls are normally required when

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. 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

with mild soap and water before eating, drinking, and when leaving work

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas

Appearance: Amber Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available pH: No data available Melting Point: No data available -114 C Boiling Point: 79 C Flash Point: 17 C Flammable Limits in Air: Ethyl Alcohol: 3.3 - 19%

Vapor Density (Air=1): No data available Specific Gravity: < 1 Solubility in Water: Soluble Log Pow (calculated): No data available -0.32 Autoignition Temperature: Estimated 423 C Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 95%

Reactivity Data

Section 11	Toxicity Data
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Carbon dioxide
•	(bases), Water-reactive materials
Incompatible Materials:	use. Organic Peroxides, Strong acids, Oxidizing materials, Strong oxidizing agents, Caustics
Reactivity: Chemical Stability: Conditions to Avoid:	Not generally reactive under normal conditions. 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

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Section 10

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Routes of Entry Symptoms (Acute): **Delayed Effects:**

Inhaltion and skin contact. Liver disorders, Impaired Kidney Function, Cardiovascular system, Gastrointestinal, No data available

Acute Toxicity: Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
1-Naphthol	90-15-3			
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
1-Naphthol	90-15-3	Not listed	Not listed	Not listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Chronic Effects: Mutagenicity: Teratogenicity:	No evidence of a mutagenic effect. No evidence of a teratogenic effect (birt	h defect).		

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:	Eyes

Section 12

Ecological Data

Overview:	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or
	wildlife.
Mobility:	This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Persistence:	Dissolved into water, Biodegradation, Photodegradation
Bioaccumulation:	Bioconcentration is not expected to occur.
Degradability:	Biodegrades at a moderate rate.

Other Adverse Effects:	No data					
Chemical Name Ethanol 1-Naphthol	64 90	CAS NumberEco Toxicity64-17-596 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC]24 HR EC50 DAPHNIA MAGNA 10800 MG/L48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L90-15-3Aquatic LC50 (96h) Bluegill Sunfish 0.75 MG/L				
Water 2-Propanol		-63-0 9 2 7	96 HR LC50 PIM 18 HR EC50 DAF 72 HR EC50 DES	OMIS MACROCH EPHALES PROM PHNIA MAGNA 13 MODESMUS SU MODESMUS SU	ELAS 11130 M0 3299 MG/L IBSPICATUS > 1	G/L [STATIC] 1000 MG/L
Methanol	67	-56-1 9	96 HR LC50 PIM	EPHALES PROM	ELAS > 100 MG	S/L [STATIC]
Section 13		Disp	osal Inforr	nation		
Disposal Methods:				Federal, State ar		ons. Always
Waste Disposal Code(s):		contact a permitted waste disposer (TSD) to assure compliance. If discarded, this product is considered a RCRA ignitable waste, D001.				
Section 14		Trans	sport Infor	mation		
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:UN1987UN1987Alcohols N.O.S.Alcohols N.O.S.Class 3Class 3P.G. IIP.G. II						
Section 15		Regul	atory Info	rmation		
TSCA Status:	All comp	onents in this pr	oduct are on the	TSCA Inventory.		
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
1-Naphthol	90-15-3	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	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

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Replaces: 08/27/2015

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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