1-Naphthol Solution

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

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;



Highly flammable liquid and vapor. Fatal if swallowed. Toxic in contact with skin. Causes serious eye damage. May cause cancer. Causes damage to organs. Harmful to aquatic life.

GHS Classification:

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

Other Safety Precautions:

IF exposed: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

| Section 3 | Composition / Information on Ingredients | | | |
|-------------------|--|-----------|----------|--|
| Chemical Name | | CAS # | <u>%</u> | |
| Ethyl alcohol | | 64-17-5 | 81.61 | |
| 1-Naphthol | | 90-15-3 | 5 | |
| Water | | 7732-18-5 | 4.75 | |
| Isopropyl Alcohol | | 67-63-0 | 4.56 | |
| Methanol | | 67-56-1 | 4.09 | |
| | | | | |

Section 4

First Aid Measures

Emergency and First Aid Procedures

| 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. |
| Ingestion: | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |

| Section 5 | Firefighting Procedures | |
|---|--|--|
| Extinguishing Media: Fire Fighting Methods and Protection: | Use dry chemical, CO2 or appropriate foam. 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. Carbon dioxide, Carbon monoxide | |
| Section 6 | Spill or Leak Procedures | |
| Released or Spilled: For Example Example equation For ne For cir For arr Sp Example For Methods for Clean-up Pr to re | b health affects expected from the clean-up of this material if contact can be avoided. bollow personal protective equipment recommendations found in Section 8 of this (M)SDS kposure to the spilled material may be severely irritating or toxic. Follow personal protective quipment recommendations found in Section 8 of this SDS. Personal protective equipment beds must be evaluated based on information provided on this sheet and the special rcumstances created by the spill including; the material spilled, the quantity of the spill, the ea in which the spill occurred, and the expertise of employees in the area responding to the bill. Never exceed any occupational exposure limits. Ventilate the contaminated area. vaporation of volatile substances can lead to the displacement of air creating an hvironment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. revent the spread of any spill to minimize harm to human health and the environment if safe do so. Wear complete and proper personal protective equipment following the commendation of Section 8 at a minimum. Dike with suitable absorbent material like anulated clay. Gather and store in a sealed container pending a waste disposal evaluation. | |
| Section 7 | Handling and Storage | |
| understood. Keep aw closed. Ground/bond equipment. Use only dust/fume/gas/mist/va product. Avoid release protection. Avoid dire | understood. 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

| | ACO | <u>GIH</u> | OSHA PEL | |
|-------------------|--------------|---------------|---------------------------------|---------------|
| Chemical Name | <u>(TWA)</u> | <u>(STEL)</u> | <u>(TWA)</u> | <u>(STEL)</u> |
| Ethyl alcohol | N/A | 1000 ppm STEL | 1000 ppm TWA; 1900 mg/m3 TWA | N/A |
| 1-Naphthol | N/A | N/A | N/A | N/A |
| Isopropyl Alcohol | 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:

Gloves:

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.

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 available.

Wear protective gloves. 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 Nitrile

Section 9

Physical Data

| Formula: See Section 3 | Vapor Pressure: No data available |
|---|---|
| Molecular Weight: No data available | Evaporation Rate (BuAc=1): No data available |
| Appearance: Amber Liquid | Vapor Density (Air=1): No data available |
| Odor: Moderate Alcohol Odor | Specific Gravity: < 1 |
| Odor Threshold: No data available | Solubility in Water: Soluble |
| pH: No data available | Log Pow (calculated): No data available -0.32 |
| Melting Point: No data available -114 C | Autoignition Temperature: Estimated 423 C |
| Boiling Point: 79 C | Decomposition Temperature: No data available |
| Flash Point: 17 C | Viscosity: No data available |
| Flammable Limits in Air: Ethyl Alcohol: 3.3 - 19% | Percent Volatile by Volume: 95% |
| Section 10 | Reactivity Data |

| 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 use. |
|--|--|
| Incompatible Materials: | Strong oxidizing agents, Caustics (bases), Water-reactive materials, Acids, Strong reducing agents, Magnesium |
| Hazardous Decomposition Products: Hazardous Polymerization: | Carbon dioxide Will not occur |

Section 11

Toxicity Data

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 | Oral LD50 | Dermai LD30 | |
| | | GUINEA PIG 2 | | |
| | | GM/KG | | |
| | | Oral LD50 Mouse | | |
| | 7700 40 5 | 275 mg/kg | | |
| Water | 7732-18-5 | Oral LD50 Rat | | |
| Isopropyl Alcohol | 67-63-0 | 90000 mg/kg Oral LD50 Rat | | INHALATION |
| | 07-00-0 | 5045 mg/kg | | LC50 Rat 16000 |
| | | Oral LD50 Mouse | | PPM 8H |
| | | 3600 mg/kg | | |
| Methanol | 67-56-1 | Oral LD50 Mouse | | INHALATION |
| | | 7300 mg/kg | | LC50 Rat 64000 |
| | | | | PPM 4H |
| Carcinogenicity: | | | | |
| Chemical Name | CAS Number | IARC | NTP | OSHA |
| Ethyl alcohol | 64-17-5 | Listed | Listed | Listed |
| 1-Naphthol | 90-15-3 | Not listed | Not listed | Not listed |
| Isopropyl Alcohol | 67-63-0 | Listed | Not listed | Not listed |
| Methanol | 67-56-1 | Not listed | Not listed | Not listed |
| Chronic Effects: | | | | |

| 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, Eyes |
| Chronic: | Eyes |

| Section 12 | | Ecological Data | |
|--|---|---|--|
| Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: | Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. This material is expected to have moderate mobility in soil. It absorbs to most soil types. Dissolved into water, Biodegradation, Photodegradation Bioconcentration is not expected to occur. Biodegrades at a moderate rate. No data | | |
| Chemical Name Ethyl alcohol | CAS Number 64-17-5 | Eco Toxicity 96 HR LC50 PIMEPHALES PROMELAS 13400 - 15100 MG/L [FLOW-THROUGH] 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 12 - 16 ML/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 Water Isopropyl Alcohol | 90-15-3 7732-18-5 67-63-0 | Aquatic LC50 (96h) Bluegill Sunfish 0.75 MG/L No data available 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 MG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 9640 MG/L [FLOW- THROUGH] 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 | 67-56-1 | 96 HR LC50 LEPOMIS MACROCHIRUS 13500 - 17600 MG/L [FLOW-THROUGH] 96 HR LC50 ONCORHYNCHUS MYKISS 18 - 20 ML/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 19500 - 20700 MG/L [FLOW-THROUGH] 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 28200 MG/L [FLOW- THROUGH] | |

Section 13

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14

Transport Information

Ground - DOT Proper Shipping Name: UN1987 Alcohols N.O.S. Class 3 P.G. II Air - IATA Proper Shipping Name: UN1987 Alcohols N.O.S. Class 3 P.G. II

| Section 15 | Regulatory Information | | | | | |
|---------------------|---|----------------------|----------------------------|-----------------------------|---------------|------------------|
| 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 |
| 1-Naphthol | 90-15-3 | No | No | No | No | No |
| Isopropyl Alcohol | 67-63-0 | lsopropyl alcohol | No | No | No | No |
| Methanol | 67-56-1 | No | No | No | No | No |
| California Prop 65: | | | VARNING: Ca vww.P65Warn | ncer and Reproduings.ca.gov | uctive Harm – | |

Section 16

Additional Information

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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

| y Program |
|-------------------------------|
| ty and Health Administration |
| ure Limit |
| |
| ation and Recovery Act |
| ments and Reauthorization Act |
| llue |
| Control Act |
| erous to life and health |
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