Carbol Fuchsin, Ziehl-Neelsen



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Carbol Fuchsin, Ziehl-Neelsen Science education applications Carbol Fuchsin, Castellani's paint 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



Causes skin irritation. Causes serious eye damage. Toxic if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Acute Toxicity - Inhalation Vapor Category 3, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Section 3 Composition / Information on Ingredients

| Chemical Name | CAS #_ | <u>%</u> |
|---------------|-----------|----------|
| Water | 7732-18-5 | 88.95 |
| Ethanol | 64-17-5 | 6.6 |
| Phenol | 108-95-2 | 3.52 |
| 2-Propanol | 67-63-0 | 0.36 |
| Methanol | 67-56-1 | 0.33 |
| Basic Fuchsin | 632-99-5 | 0.23 |

Section 4

First Aid Measures

Firefighting Procedures

Emergency and First Aid Procedures

| Ingestion: | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
|-----------------|--|
| In man the main | Take off contaminated clothing and wash before reuse. |
| Skin Contact: | IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. |
| | to do. Continue rinsing. |
| Eyes: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy |
| Inhalation: | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| | |

Section 5

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

Firefighters should wear full protective equipment and NIOSH approved self-contained

| Fire Fighting | Methods and | Protection: |
|---------------|-------------|-------------|
|---------------|-------------|-------------|

| Fire and/or Explosion Hazards: Hazardous Combustion Products: | Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide. Carbon monoxide | | |
|--|---|--|--|
| | breathing apparatus. | | |

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum. Ventilate the area by opening door and/or turning on fans and blowers. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7

Section 8

Handling and Storage

| Handling: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. |
|-----------|--|
| Storage: | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Suitable for any general chemical storage. |

Storage Code: Green - general chemical storage

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; | N/A | |
| | | | 1900 mg/m3 TWA | | |
| Phenol | 5 ppm TWA | N/A | 5 ppm TWA; 19 | N/A | |
| | | | mg/m3 TWA | | |
| 2-Propanol | 200 ppm TWA | 400 ppm STEL | 400 ppm TWA; 980 | N/A | |
| | | | mg/m3 TWA | | |
| Methanol | 200 ppm TWA | 250 ppm STEL | 200 ppm TWA; 260 | N/A | |
| | | | mg/m3 TWA | | |
| Basic Fuchsin | N/A | N/A | N/A | N/A | |

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection:

Respirator Type(s):

Eye Protection:

Skin Protection:

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.

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. 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.

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

Appearance: Dark Red Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available pH: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Reactivity Data

| Reactivity: | Not generally reactive under normal conditions. |
|-----------------------------------|--|
| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Elevated temperatures |
| Incompatible Materials: | Water-reactive materials, Organic Peroxides, Strong acids, Oxidizing materials, Acetaldehydes, Mineral acids, Metals |
| Hazardous Decomposition Products: | Carbon oxides |
| Hazardous Polymerization: | Will not occur |
| | |

Section 11

Routes of Entry

Symptoms (Acute):

Delayed Effects:

Section 10

Toxicity Data

Inhalation and ingestion., Inhalation, ingestion, eye or skin contact. Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness, Central Nervous System Disorders, Cardiovascular system, Impaired Kidney Function, Respiratory disorders, Numbness No data available

| Acute Toxicity: | | | | | |
|--|---|-----------------------|--|---------------------------------|-------------------------------------|
| Chemical Name Water | | CAS Number 32-18-5 | Oral LD50 Oral LD50 Rat | Dermal LD50 | Inhalation LC50 |
| | | 02 10 0 | 90000 mg/kg | | |
| Phenol | 10 | 8-95-2 | Oral LD50 Rat 512 mg/kg | Dermal LD50 Rabbit 630 mg/kg | INHALATION LC50 Rat 316 MG/M3 |
| 2-Propanol | 67 | -63-0 | Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse | | INHALATION LC50 Rat 16000 ppm |
| Methanol | 67 | -56-1 | 3600 mg/kg Oral LD50 Mouse 7300 mg/kg | | INHALATION LC50 Rat 64000 ppm |
| Basic Fuchsin | 63 | 2-99-5 | | | FF |
| Carcinogenicity: | | | | | |
| Chemical Name | | CAS Number | IARC | NTP | OSHA |
| Ethanol | 64 | -17-5 | Listed | Listed | Listed |
| Phenol | 10 | 8-95-2 | 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 |
| Basic Fuchsin | 63 | 2-99-5 | Listed | Not listed | Listed |
| Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: | Evidence of a mutagenic effect. No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects. | | | | |
| Acute: | Kidneys, Central Nervous System, Cardiovascular system, Lungs, Eyes | | | | |

Kidneys, Liver, No information available, Eyes, Bladder

Section 12

Chronic:

Overview:

Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Ecological Data

| Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects: | This material is expected to h Photodegradation, Biodegrac No data Biodegrades quickly. No data | ave very high mobility in soil. It does not absorb to most soil types. lation |
|---|---|--|
| Chemical Name | CAS Number | Eco Toxicity |
| Water | 7732-18-5 | No data available |
| Ethanol | 64-17-5 | 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 |
| Phenol | 108-95-2 | 96 HR LC50 BRACHYDANIO RERIO 27.8 MG/L |
| | | 96 HR LC50 LEPOMIS MACROCHIRUS 13.5 MG/L [STATIC] |
| | | 96 HR LC50 ONCORHYNCHUS MYKISS 5 - 12 MG/L 96 HR LC50 PIMEPHALES PROMELAS 32 MG/L |
| | | 48 HR EC50 DAPHNIA MAGNA 10.2 - 15.5 MG/L |
| | | 96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 46.42 |
| | | MG/L |
| 2-Propanol | 67-63-0 | 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 | 67-56-1 | 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] |
| Basic Fuchsin | 632-99-5 | No data available |

Section 13

Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. U188 - Phenol

Waste Disposal Code(s):

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT. **Air - IATA Proper Shipping Name:** Not regulated for air transport by IATA.

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 |
|---------------|---------------|----------------------|---------------|---|--|------------------|
| Ethanol | 64-17-5 | No | No | No | No | No |
| Phenol | 108-95-2 | Phenol | 1000 lb RQ | 1000 lb final RQ; 454 kg final RQ | 500 lb lower TPQ; 10000 lb upper TPQ | No |
| 2-Propanol | 67-63-0 | Isopropyl alcohol | No | No | No | No |
| Methanol | 67-56-1 | No | No | No | No | No |
| Basic Fuchsin | 632-99-5 | No | No | No | No | No |

California Prop 65:

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

Section 16

Additional Information

Revised: 10/20/2015

Replaces: 10/20/2015

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