Maneval's Modified Stain



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Maneval's Modified Stain Science education applications Maneval's Stain, Modified 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 irritation. Toxic if inhaled. Suspected of causing genetic defects. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Acute Toxicity -Inhalation Vapor Category 3, Hazardous to the aquatic environment - Acute Category 3, Hazardous to the aquatic environment -Chronic Category 3

Other Safety Precautions:	IF exposed or concerned: Get medical advice/attention.
Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor Contains Acute Toxicity Inhalation Dust/Mist Contains	 0 % of the mixture consists of ingredient(s) of unknown toxicity 7 % of the mixture consists of ingredient(s) of unknown toxicity 3 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>	
Water	7732-18-5	89.26	
Acetic Acid	64-19-7	4.68	
Phenol	108-95-2	3.21	
Iron (III) Chloride, 6-Hydrate	10025-77-1	2.8	
Acid Fuchsin	3244-88-0	0.05	

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash 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: Fire Fighting Methods and Protectic	Use dry chemical, CO2 or appropriate foam. pn: 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
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. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum. 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:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	Green - general chemical storage

Section 8

Protection Information

	ACGI	H	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
Acetic Acid	10 ppm TWA	15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	N/A	
Phenol	5 ppm TWA	N/A	5 ppm TWA; 19 mg/m3 TWA	N/A	
Iron (III) Chloride, 6-Hydrate	1 mg/m3 TWA (as Fe)	N/A	N/A	N/A	

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Lak Respiratory Protection: Res

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. 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. No information available

Gloves:

Section 9

Physical Data

Formula: N/A Molecular Weight: No data available Appearance: Purple Liquid Odor: Mild Vinegar Odor Threshold: No data available

nysical Data

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: Soluble

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

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

Section 10

Reactivity Data

Reactivity:	Not generally reactive under normal conditions.
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Incompatible Materials:	Water-reactive materials, Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing materials, Halogens, Carbonates, Mineral acids, Metals
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	Impaired Kidney Fun	m, Respiratory disorde	ation, Lachrymation, Ce ers, Numbness, Allergie		
Acute Toxicity: Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Acetic Acid		64-19-7			INHALATION LC50 MAMMAL 11.4 GM/M3 INHALATION LC50 Mouse 5620 ppm
Phenol		108-95-2	Oral LD50 Rat 512 mg/kg	Dermal LD50 Rabbit 630 mg/kg	INHALATION LC50 Rat 316 MG/M3
Iron (III) Chloride, 6-Hy	drate	10025-77-1	Oral LD50 Rat 317 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	
Acid Fuchsin		3244-88-0			
Carcinogenicity: Chemical Name Acetic Acid Phenol		CAS Number 64-19-7 108-95-2	IARC Not listed Not listed	NTP Not listed Not listed	OSHA Not listed Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	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. S: No information available, Kidneys, Central Nervous System, Cardiovascular system, Lungs, Skin, Blood Teeth, Kidneys, Liver, Blood				

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	Biodegradation, Photodegradation, Dissolved into water
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Chemical Name Water Acetic Acid	CAS Number 7732-18-5 64-19-7	Eco Toxicity No data available Aquatic LC50 (96h) Fathead Minnow 79 MG/L Aquatic EC50 (24h) Daphnia 47 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
Iron (III) Chloride, 6-Hydrate	10025-77-1	Aquatic LC50 (96h) Fathead Minnow 21.84 MG/L Aquatic EC50 (48h) Daphnia 9.6 MG/L
Acid Fuchsin	3244-88-0	

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. Not Determined

Section 14

Transport Information

Regulatory 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

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
Acetic Acid	64-19-7	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	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
Iron (III) Chloride, 6-Hydrate	10025-77-1	No	No	No	No	No
Acid Fuchsin	3244-88-0	No	No	No	No	No

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

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