Flagella Stain, Leifson



Section 1

Product Description

Product Name: Flagella Stain, Leifson

Recommended Use: Science education applications

Synonyms: Leifson Stain

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER





Flammable liquid and vapor. Suspected of causing genetic defects. May cause cancer. Causes damage to organs. Toxic to aquatic life.

GHS Classification:

Carcinogenicity Category 1A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Germ Cell Mutagenicity Category 2, Hazardous to the aquatic environment - Acute Category 2, Flammable Liquid Category 3

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

IF exposed or concerned: Get medical advice/attention.

Acute Toxicity Oral Contains 28.6149 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3

Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Water	7732-18-5	68.56
Ethyl alcohol	64-17-5	26.71
Basic Fuchsin	632-99-5	1.9
Isopropyl Alcohol	67-63-0	1.49
Methanol	67-56-1	1.34

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: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

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.

N/A

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: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

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 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.

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

Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and 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. Use personal protective equipment as required. Avoid excess 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	(TWA)	(STEL)	<u>(TWA)</u>	(STEL)
Ethyl alcohol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A
			1900 mg/m3 TWA	
Basic Fuchsin	N/A	N/A	N/A	N/A
Isopropyl Alcohol	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
			ma/m3 TWA	

Control Parameters

Engineering Measures:No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

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

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: 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:

Nitrile

Section 9

Physical Data

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

pH: No data available

Vapor Pressure: N/A
Evaporation Rate (BuAc=1): N/A
Vapor Density (Air=1): N/A
Specific Gravity: N/A
Solubility in Water: Soluble

Log Pow (calculated): No data available

Melting Point: -114 C **Boiling Point: 79 C** Flash Point: 17 C

Flammable Limits in Air: N/A

Autoignition Temperature: No data available **Decomposition Temperature:** No data available

Viscosity: No data available Percent Volatile by Volume: 98%

Section 10 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. Dusting.

Incompatible Materials: Water-reactive materials, Strong oxidizing agents, Acids, Strong reducing agents,

Magnesium

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute):

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
Basic Fuchsin	632-99-5			
Isopropyl Alcohol	67-63-0	Oral LD50 Rat		INHALATION
		5045 mg/kg		LC50 Rat 16000
		Oral LD50 Mouse		ppm
		3600 mg/kg		
Methanol	67-56-1	Oral LD50 Mouse		INHALATION

7300 mg/kg

LC50 Rat 64000

ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethyl alcohol	64-17-5	Listed	Listed	Listed
Basic Fuchsin	632-99-5	Listed	Not listed	Listed
Isopropyl Alcohol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

No evidence of negative reproductive effects. Reproductive:

Target Organ Effects:

Acute: See Section 2

Chronic: Mutation data cited., Reproductive data cited., Tumorigenic data cited., Not listed as a carcinogen by

IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data Persistence: Biodegradation Bioaccumulation: No data Degradability: No data Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity Water 7732-18-5 No data available

Ethyl alcohol	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
Basic Fuchsin Isopropyl Alcohol	632-99-5 67-63-0	No data available 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]

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.

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: UN 1987, ALCOHOLS, N.O.S, Class 3, P.G. III UN 1987, ALCOHOLS, N.O.S, Class 3, P.G. III

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
Basic Fuchsin	632-99-5	No	No	No	No	No
Isopropyl Alcohol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	No	No	No	No	No

California Prop 65:



WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

Section 16 Additional Information

Revised: 08/21/2018 Replaces: 06/27/2018 Printed: 08-25-2018

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	NTP	National Toxicology Program
ACGIT	Industrial Hygienists	OSHA	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