Schiff Reagent



Section 1

Product Description

Product Name: Schiff Reagent

Recommended Use: Science education applications

Synonyms: N/A

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;

WARNING



Suspected of causing cancer.

GHS Classification:

Carcinogenicity Category 2

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	99.06
Sodium Metabisulfite	7681-57-4	0.5
Basic Fuchsin	632-99-5	0.25
Hvdrogen Chloride	7647-01-0	0.19

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.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: N/A

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

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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.

Use personal protective equipment as required. Avoid contact with skin and eyes. Do not ingest or take

internally.

Store locked up. Suitable for any general chemical storage. Storage:

Decomposes in air.

Green - general chemical storage Storage Code:

Section 8

Protection Information

	ACC	<u>SIH</u>	<u>OSHA PEL</u>		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(TWA)	(STEL)	
Sodium Metabisulfite	5 mg/m3 TWA	N/A	N/A	N/A	
Basic Fuchsin	N/A	N/A	N/A	N/A	
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)	

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.

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

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: No information available

Section 9

Physical Data

Formula: See Section 3 Molecular Weight: N/A **Appearance:** Colorless

Odor: None

Odor Threshold: No data available

pH: < 2.0

Melting Point: No data available

Boiling Point: 100 C

Flash Point: No data available

Flammable Limits in Air: N/A

Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A

Vapor Density (Air=1): N/A Specific Gravity: Approx 1 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: <1%

Section 10

Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry N/A Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

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Chemical Name Water	CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat	Dermal LD50	Inhalation LC50
Sodium Metabisulfite	7681-57-4	90000 mg/kg Oral LD50 Rat 1131 mg/kg	Dermal LD50 Rat > 2000 mg/kg	
Basic Fuchsin	632-99-5		- 2000 mg/ng	
Hydrogen Chloride	7647-01-0	Oral LD50 Rabbit 900 mg/kg		INHALATION LC50 Rat 3700 ppm INHALATION

LC50 Mouse 1108 ppm INHALATION LC50 Rat 45000

MG/M3 INHALATION LC50 Rat 8300

MG/M3

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHABasic Fuchsin632-99-5ListedNot listedListedHydrogen Chloride7647-01-0Not listedNot listedNot listed

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: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.,

Tumorigenic data cited.

Section 12

Ecological Data

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

Mobility: No data

Persistence: Evaporation into atmosphere, dissolved in water.

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Metabisulfite 7681-57-4 96 HR LC50 LEPOMIS MACROCHIRUS 32 MG/L [STATIC]

24 HR EC50 DAPHNIA MAGNA STRAUS 89 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS 40 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS 48 MG/L

Basic Fuchsin 632-99-5 No data available

Hydrogen Chloride 7647-01-0 96 HR LC50 GAMBUSIA AFFINIS 282 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:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15

Regulatory Information

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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
Hydrogen Chloride	7647-01-0	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

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
	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

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