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MATERIAL SAFETY DATA SHEET

MSDS No.: SS0110
Revision Date: September 16, 2013
Approved by: James A. Bertsch

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Section 1 Chemical Product and Company Information

Product: **SCHIFF REAGENT**

Synonyms: Schiff Aldehyde Solution

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

Section 2 Hazards Identification

Emergency Overview

WARNING!

MAY BE HARMFUL IF SWALLOWED. AVOID BREATHING VAPOR.
Use with adequate ventilation. Avoid contact with skin and eyes.
Store in a cool place. Wash thoroughly after handling.
Target organs: None known.

0 = Minimal	Health	2
1 = Slight	Fire	0
2 = Moderate	Reactivity	1
3 = Serious	Contact	1
4 = Severe		
HMIS *		

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Sodium metabisulfite	7681-57-4	0.5%	TWA: 5 mg/m ³
Basic fuchsin	632-99-5	0.25%	None established.
Hydrochloric acid	7647-01-0	0.18%	STEL: C 5 ppm
Water	7732-18-5	99.0%	None established.

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Temperatures at or near boiling (104°C) may cause the evolution of toxic and corrosive sulfur dioxide.

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Flash Point: Not flammable.

Autoignition temperature: N/A

Explosion Limits: Lower: N/A Upper: N/A

Section 6 Accidental Release Measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.



Section 7 Handling & Storage

GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. **Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse. **Storage:** Store in a cool, well-ventilated area away from incompatible substances. Protect from light and moisture. Keep container tightly closed to help maintain SO₂ atmosphere inside the bottle.

Section 8 Exposure Controls / Personal Protection

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or facemask, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Physical state: Liquid.

Appearance: Clear, colorless.

Odor: Irritating odor of sulfur dioxide.

pH: N/A

Vapor pressure (mm Hg): 14 (water)

Vapor Density (Air = 1): 0.7 (water)

Evaporation rate (Water = 1): >1

Viscosity: N/A

Boiling point: ~100°C (212°F) (water)

Freezing / Melting point: ~0°C (32°F) (water)

Decomposition temperature: N/A

Solubility in water: Complete.

Specific gravity (H₂O = 1): ~1.0

Percent volatile (%): 99%

Molecular formula: Mixture.

Molecular weight: Mixture.

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Keep container tightly closed to help maintain SO₂ atmosphere inside the bottle.

Incompatibilities with other materials: Exposure to air will turn the solution red in color and thus unusable.

Hazardous decomposition products: May produce sulfur dioxide fumes and chlorides when heated.

Section 11 Toxicological Information

Effects of overexposure: Harmful if swallowed. Contact may cause skin irritation. Contact causes irritation to eyes and the mucous membranes. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Section 12 Ecological Information

Aquatic toxicity: Data not yet available. Do not flush into surface water or sanitary sewer system.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: N/A

Shipping name: Not Regulated.

Hazard class: N/A

Packing group: N/A

Exceptions: N/A

Section 15 Regulatory Information

All components listed with the following agencies: TSCA.

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards.