MATERIAL SAFETY DATA SHEET

SECTION I NAME
Product: SCHIFF REAGENT

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s)
- Basic Fuchsin: (CAS No. 632-99-5)
- Hydrochloric Acid: (CAS No. 7647-01-0)
- Sodium Meta Bisulfit (CAS No. 7681-57-4)

TLV Units
- Basic Fuchsin: 0.25%
- Hydrochloric Acid: 0.18%
- Sodium Meta Bisulfit: 0.5%

WARNING! MAY BE HARMFUL IF SWALLOWED. IRRITATING TO SKIN AND EYES. MAY HAVE DELAYED REACTION. AVOID BREATHING VAPOR.

SECTION III PHYSICAL DATA
- Melting Point: Freezes approx. 0°C (32°F)
- Boiling Point: Approx. 100°C (212°F)
- Vapor Pressure: 14 (mm Hg)
- Vapor Density: 0.7 (Air = 1)
- Appearance & Odor: May be colorless, slightly brown or pink; irritating odor of sulfur dioxide.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
- Flash Point: Non-combustible (NA)
- Explosion Limits: Lower 0.6 % by Volume, Upper NA

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

SPECIAL FIREFIGHTING PROCEDURES
In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Fire or excessive heat may produce hazardous decomposition products of sulfur dioxide.

SECTION V HEALTH HAZARD DATA
Threshold Limited Value
None established for this compound. TWA Hydrogen Chloride ceiling limit: 5 ppm; 7 mg/m³ (air) (ACGIH 1983-84). Sulfur dioxide: TWA 2 ppm, 3mg/M³ STEL 5 ppm, 10mg/M³ (AIR)

Effects of Overexposure
May cause skin irritation. Irritant to eyes and mucous membranes. Harmful if swallowed. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INGESTION: If swallowed, if conscious, give large quantities of water or milk to drink. Follow with milk of magnesia, beaten eggs or vegetable oil. Call a physician immediately. Never give anything by mouth to an unconscious person.
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.
INHALATION: Remove to fresh air. If ill effects or discomfort develops, get medical attention.
SKIN: Flush thoroughly with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA
Stability
- Unstable

Conditions to Avoid
- Keep container tightly closed to help maintain SO₂ atmosphere inside bottle.

Incompatibility (Materials to Avoid)
- 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.

Hazardous Polymerization
- Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
- Absorb in vermiculite. Scoop up and place in a suitable container. Flush spill area with water.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection
- Good ventilation or work in a ventilation hood for normal laboratory use.

Ventilation
- Local Exhaust: Recommended. Special No.
- Mechanical (General): Recommended. Other No.

Protective Gloves
- Rubber
- Eye Protection
- Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
- Store in a cool, well-ventilated area and protect from light. Wash thoroughly after handling.

Other Precautions
- Read label on container before using. Do not wear contact lenses when working with chemicals.
- There is insufficient data in the published literature to assign complete laboratory toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4 Date 12/19/95 Approved Michael Raszeja Chemical safety Coordinator MR

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