



### Section 1. Identification of the Substance/Mixture and the Company

<b>1.1 Product Identifier</b>	Product Name: Schiff's Solution Product Number: SRF	
<b>1.2 Intended use</b>	EN: Laboratory reagent. For professional use only. DA: Laboratoriereagens. Kun til professionelt brug. DE: Laboratoriumreagens. Alleen voor professioneel gebruik. EL: Αντιδραστήριο εργαστηρίου. Για επαγγελματική χρήση μόνο. ES: Reactivo de laboratorio. Sólo para uso profesional. FR: Réactif de laboratoire. Pour un usage professionnel uniquement. IT: Laboratorio di reagente. Solo per uso professionale. NL: Laboratoriumreagens. Alleen voor professioneel gebruik. PT: Reagente de laboratório. Para uso profissional. SV: Laboratoriereagens. Endast för yrkesmässig användning.	
<b>1.3 Details of the supplier of the safety data sheet</b>	<b>Manufacturer</b>	ScyTek Laboratories, Inc.
	<b>Address</b>	205 South 600 West Logan, Utah 84321 U.S.A.
	<b>Phone Number</b>	800-729-8350
	<b>Fax Number</b>	435-755-0015
	<b>e-mail</b>	<a href="mailto:scytek@scytek.com">scytek@scytek.com</a>
	<b>Website</b>	scytek.com
<b>1.4 Emergency Telephone</b>	Chemtrec (USA): 1-800-424-9300	

### Section 2. Hazards Identification

<b>2.1 GHS Classification</b>	Skin irritation (Category 2) – H315 Serious eye damage (Category 1) – H318 Carcinogenicity (Category 1B) – H350	
<b>2.2 Label Elements</b>	Pictogram(s): 	
	Signal word:	Danger
	Hazard statement(s):	H318 – Causes serious eye damage H315 – Causes skin irritation H390 – May cause cancer H335 – May cause respiratory irritation.







	Precautionary statement(s): P261: Avoid breathing dust/fumes/gas/mist/vapours/spray P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes. P337 + 313 – If eye irritation persists get medical advice/attention.  See Annex III and IV of the EU CLP regulation for translations of statements.		
<b>NFPA</b> <b>Scale: 0-4</b> (Estimated for Mixtures)			
<b>HMIS (U.S.A.)</b> <b>Scale: 0-4</b> (Estimated for Mixtures)	HEALTH	2	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	G	
<b>2.3 Other Hazards</b>	<b>Schiff's Solution:</b> This solution continuously off-gases low levels of sulfur dioxide, a colorless, moderately toxic gas with an irritating and pungent odor. Keep container tightly sealed. Avoid inhalation and use with fume protection or in a larger well-ventilated space when able. <b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT. <b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.		

### Section 3. Composition and Information on Ingredients

#### 3.2 Chemical Description: Mixture

\*May contain additional non-hazardous proprietary ingredients.

\*May contain additional active ingredients at concentrations <0.1%w/v.

Hazardous Ingredients:	CAS#	EC#	GHS Symbols	%
Sodium Metabisulfite	7681-57-4	231-673-0	 Danger. 1 H318 Causes serious eye damage.   Warning. 4 H302 Harmful if swallowed.	≤ 2
Hydrochloric Acid	7647-01-0	231-595-7	 Warning. 3. H335 May cause respiratory irritation.   Danger. 1B. H314 Causes severe skin burns and eye damage.	≤ 1
Pararosaniline HCl (Basic Red 9)	569-61-9	209-321-2	 Warning. 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation. 3 H335 May cause respiratory irritation.   Danger. 1A H350 May cause cancer	≤ 0.5

## Section 4. First Aid Measures

### 4.1 Description of first aid measures

**Eye Contact:** Check for and remove contact lenses. Immediately flush eyes with copious amounts of water and get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops.

**Inhalation:** If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms worsen.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get immediate medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## Section 5. Fire Fighting Measures

<b>5.1 Extinguishing Media</b>	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
<b>5.2 Special hazards arising from the substance or mixture</b>	No unusual fire or explosion hazards expected.
<b>5.3 Advice for firefighters</b>	As with any fire, wear personal protection equipment, including a self-contained breathing apparatus (S.C.B.A.)

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus.

### 6.2 Environmental precautions

Keep material away from heat, flame, ignition sources, and reactive materials. Don't allow product to enter drain.

### 6.3 Methods and materials for containment and cleaning up

Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Avoid breathing vapor.

### 7.2 Conditions for safe storage, including any incompatibilities.

Store in well ventilated area.

Keep container tightly closed.

Store at 2-8°C.

### 7.3 Specific end use(s).

See section 1.2

## Section 8. Exposure Controls / Personal Protection

<b>8.1 Control parameters</b>	<p><b>Exposure Limits:</b> Sodium Metabisulfite: <i>NIOSH REL: TWA 5 mg/m<sup>3</sup></i></p> <p>Hydrochloric Acid: <i>NIOSH REL: C 5 ppm (7 mg/m<sup>3</sup>)</i> <i>OSHA PEL: C 5 ppm (7 mg/m<sup>3</sup>)</i></p> <p>Sulfur Dioxide: <i>NIOSH REL: TWA 2 ppm (5 mg/m<sup>3</sup>) ST 5 ppm (13 mg/m<sup>3</sup>)</i> <i>OSHA PEL: TWA 5 ppm (13 mg/m<sup>3</sup>)</i></p>
<b>8.2 Exposure controls</b>	<p><b>Personal Protective Equipment (PPE):</b></p> <p><b>Eye/Face protection.</b> Safety glasses or goggles are required.</p> <p><b>Skin protection.</b> Protective clothing is required.</p> <p><b>Hand protection.</b> Chemical resistant gloves are required. Glove material must be resistant to the components of this product. Consult glove manufacturer for specific recommendations of appropriate material and thickness of glove.</p> <p><b>Respiratory protection.</b> Avoid breathing vapor.</p> <p><b>Environmental exposure controls.</b> Avoid releasing large quantities into the environment. No additional information.</p>
<b>Engineering Controls</b>	Working area should be adequately large and well ventilated to prevent concentration of vapors. Provide mechanical exhaust ventilation or other engineering controls to keep airborne concentrations of vapors below their respective threshold limits.

### Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Color</b>	Transparent
<b>Odor</b>	Pungent Sulfur Dioxide
<b>Odor Threshold</b>	Unknown
<b>pH</b>	Acidic
<b>Melting Point/ Freezing Point</b>	Unknown
<b>Initial Boiling Point</b>	Unknown
<b>Flash Point</b>	Unknown
<b>Evaporation Rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Unknown
<b>Upper/Lower Flammability Limits</b>	Unknown
<b>Vapor Pressure</b>	Unknown
<b>Vapor Density</b>	Unknown
<b>Relative Density</b>	Unknown
<b>Solubility(ies)</b>	Water
<b>Partition Coefficient: n-octanol/water</b>	Unknown
<b>Auto-Ignition Temperature</b>	Unknown
<b>Decomposition Temperature</b>	Unknown

<b>Viscosity</b>	Unknown
<b>Explosive Properties</b>	Not explosive.
<b>Oxidizing Properties</b>	Unknown

### Section 10. Stability and Reactivity

<b>10.1 Reactivity</b>	No relevant data available.
<b>10.2 Chemical Stability</b>	Stable under normal temperatures and pressures.
<b>10.3 Possibility of Hazardous Reactions</b>	No hazardous reactions known.
<b>10.4 Conditions to Avoid</b>	Fire, static electricity, direct sunlight.
<b>10.5 Incompatible Materials</b>	Bases, oxidizers, sodium nitrate.
<b>10.6 Hazardous Decomposition Materials</b>	Oxides of sulfur.

### Section 11. Toxicological Information

<b>11.1 Information on Toxicological Effects.</b>	<p><b>Acute Toxicity.</b> No relevant data available</p> <p><b>Skin Corrosion/Irritation.</b> Irritating to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Irritation.</b> Corrosive to eye.</p> <p><b>Respiratory or skin sensitization.</b> No relevant data available.</p> <p><b>Germ Cell Mutagenicity.</b> No relevant data available.</p>
<b>Carcinogenicity.</b>	<p><b>International Agency for Research on Cancer (IARC).</b> Hydrochloric Acid is listed as Group 3 – Not classifiable as to carcinogenicity in humans IARC: Pararosaniline (C.I. Basic red 9) is listed as a Group 2B: Possibly carcinogenic to humans.</p> <p><b>National Toxicology Program (NTP).</b> Reasonably anticipated to be a human carcinogen.</p>

### Section 12. Ecological Information

<b>12.1 Toxicity</b>	<p><b>Fish:</b> No relevant studies identified.</p> <p><b>Crustacea:</b> No relevant studies identified.</p> <p><b>Algae/Aquatic Plants:</b> No relevant studies identified.</p> <p><b>Other Organisms:</b> No relevant studies identified.</p>
<b>12.2 Persistence and Degradability.</b>	No relevant studies identified.
<b>12.3 Bioaccumulative Potential.</b>	No relevant studies identified.
<b>12.4 Mobility in Soil.</b>	Miscible in water. May spread in water systems. This component is non-volatile.
<b>Additional Remarks</b>	None.
<b>12.5 Results of PBT and vPvB Assessment.</b>	<p><b>PBT:</b> This mixture does not contain any substances that are assessed to be a PBT.</p> <p><b>vPvB:</b> This mixture does not contain any substances that are assessed to be a vPvB.</p>

### Section 13. Disposal Considerations

<b>13.1 Waste Disposal Methods.</b>	Sewage disposal is discouraged. Waste should not be disposed of by release to sewers. Dispose waste in accordance with federal, state and local environmental control regulations.
<b>Product/Packaging Disposal.</b>	Final decisions on the appropriate waste management method must be in line with local, regional and national regulations.
<b>Other Disposal Recommendations.</b>	No relevant data available.

### Section 14. Transport Information– DOT IATA, IMDG, ADR/RID

<b>14.1 UN Number</b>	Not regulated for transport.
<b>14.2 UN Proper Shipping Name</b>	Not regulated for transport.
<b>14.3 Transport Hazard Class(es)</b>	Not regulated for transport.
<b>14.4 Packing Group</b>	Not regulated for transport.
<b>14.5 Environmental Hazards</b>	<b>Marine Pollutant:</b> No
<b>14.6 Special Precautions for User</b>	Not applicable.
<b>14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code.</b>	This product is not intended to be transported in bulk as defined in Annex II of MARPOL73/78 and the IBC Code.

### Section 15. Regulatory Information

<b>15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture.</b>	
<b>Sara 313 Components</b>	Hydrochloric Acid CAS# 7647-01-0
<b>Extremely Hazardous Substances; Section 355</b>	None of the components in this mixture are listed.
<b>Toxic Substances Control Act; TSCA</b>	All of the components in this mixture are listed.
<b>California Proposition 65</b>	Pararosaniline: Warning! This product contains a chemical known to the State of California to cause cancer.
<b>Right To Know Components</b>	Pennsylvania, Massachusetts, New Jersey Right to Know: Sodium Metabisulphite CAS# 7681-57-4 Hydrochloric Acid CAS# 7647-01-0 Massachusetts, New Jersey Right to Know: Pararosaniline CAS# 569-61-9

### Section 16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.