

MATERIAL SAFETY DATA SHEET

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Section I: IDENTIFICATION

Product Name: **Periodic Schiff's Reagent**

Date Prepared: 01/04 *Date Revised*:* 11/06

Item Number(s): 400304

Emergency Phone: 800-535-5053

Section II: COMPOSITION

<i>Hazardous Component(s):</i>	<i>CAS Number</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	<i>NFPA</i>
Hydrochloric Acid < 1%	7647-01-0	5 ppm	Health 1
Potassium Metabisulfite <1%	16731-55-8	NA	Flammability 0 Reactivity 0

Section III: PHYSICAL DATA

<i>Boiling Point:</i>	~212°F	<i>Specific Gravity (H₂O = 1):</i>	~1.
<i>Vapor Pressure mm Hg/20 °C:</i>	18	<i>Percent Volatile by Vol:</i>	10%
<i>Vapor Density (Air 1:1):</i>	~1	<i>Evaporation Rate (ether = 1):</i>	NA
<i>Solubility in H₂O:</i>	Complete	<i>Appearance & Odor:</i>	Colorless liquid, sulfur odor

Section IV: FIRE/EXPLOSION HAZARD

Flash Point: NA *Flammable Limits:* LEL NA UEL NA

Extinguishing Media: Water spray, dry chemical, CO₂ and foam

Special Fire Fighting Procedures: Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

Unusual Fire & Explosion Hazards: May emit toxic fumes under fire conditions.

Section V: REACTIVITY

Stability: Stable *Material to Avoid:* Strong bases etc.

Hazardous Decomposition or Byproducts: Oxides of carbon, chlorine and sulfur

Hazardous Polymerization: Does not occur *Conditions to Avoid:* Excessive heat

Section VI: HEALTH HAZARDS

Routes of Entry: Inhalation, Skin and Ingestion *Target Organs:* Lungs and eyes

Acute: Vapors may cause eyes, skin and respiratory irritation, nausea, headache and vomiting.

Chronic: May cause lung and respiratory problems.

Carcinogenicity: Not classified as a human carcinogen.

Signs/Symptoms of Exposure: Slightly hazardous to skin in the concentration provided. Protect eyes and respiratory system from mist. Vision blurring, burning sensation and headache.

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Section VI: HEALTH HAZARDS

Emergency First Aid:

Skin: Remove contaminated clothing. Wash affected area with soap and water.

Eyes: Thoroughly flush eyes with water. Contact a physician if irritation persists.

Ingestion: Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

Section VII: SAFE HANDLING

Chemical Release or Spill: Isolate the spill area with sand, or other absorbent material. Place all contaminated material in a closed container for disposal.

Waste Disposal Method: All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

Precautions for Handling and Storing: Avoid excessive heat. For large quantities, store in safety cabinet. Use in ventilated area.

Section VIII: CONTROL MEASURES

Respiratory Protection: Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

Ventilation: Special flammable exhaust hood if vapor concentration is high. In well-ventilated areas, mechanical exhaust is sufficient.

Protective Gloves: Chemical resistant *Eye Protection:* Safety glasses

Other Protective Clothing or Equipment: Normal laboratory apparel suggested by Good Laboratory Practices

Work/Hygienic Practices: Wash thoroughly with soap and water after handling.

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

*Change due to customer request. No substantial changes since prepared date.

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