

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Identifier:** Exton's Reagent

**Product Code(s):** E1009

**Synonyms:** Exton Qualitative Reagent

**Recommended Use:** For manufacturing, industrial, and laboratory use only.

**Uses Advised Against:** Not for household use.

**Supplier:** Rocky Mountain Reagents, Inc.  
4621 Technology Drive, Golden, CO 80403  
Phone: (303) 762-0800 Fax: (303) 762-1240

**Emergency Phone Number:** For health emergency, call poison control: (800) 222-1222.

### 2. HAZARDS IDENTIFICATION

**Hazard Classifications:** Skin Corrosion/Irritation: Category 1B  
Eye Damage/Irritation: Category 1

**Signal Word:** DANGER

**Hazard Statements:** Causes severe skin burns and eye damage.  
Causes serious eye damage.

**Pictograms:**



**Precautionary Statements:**

**Prevention:** Do not breathe mists.  
Wash thoroughly after handling.  
Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:** If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**Storage:** Store locked up.

**Disposal:** Dispose of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:** No information found.

**Toxicity Statement:** Not applicable.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	94
5-Sulfosalicylic Acid, Dihydrate	2-Hydroxy-5-sulfobenzoic Acid, Dihydrate	5965-83-3	C <sub>7</sub> H <sub>6</sub> O <sub>6</sub> S • 2H <sub>2</sub> O	5
Sodium Sulfate, Anhydrous	Disodium Sulfate	7757-82-6	Na <sub>2</sub> SO <sub>4</sub>	1

**Trade Secret Statement:** Not applicable.

### 4. FIRST AID MEASURES

#### First Aid Procedures:

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately call a poison center or doctor.

**Ingestion:** Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or doctor if symptoms occur.

**Skin Contact:** Immediately remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Call a doctor if symptoms occur.

**Eye Contact:** Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**General Advice:** Poison information centers in each state can provide additional assistance for scheduled poisons. Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

**Symptoms and Effects:** Causes burns by all exposure routes. Inhalation may cause coughing, wheezing, and shortness of breath. Ingestion may cause nausea, vomiting, diarrhea, abdominal pain, severe swelling, severe damage to the delicate tissue and danger of perforation. Skin contact may cause irritation, redness, and itchiness. Eye contact may cause irritation and watering eyes.

**Immediate Medical Care/ Special Treatment:** Call a physician if feeling unwell or concerned. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray, dry powder, alcohol resistant foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion Products:** Carbon oxides, sulfur oxides.

**Specific Hazards:** May decompose upon heating to yield corrosive and/or toxic fumes.

**Special Protective Equipment/Precautions for Firefighters:** As in any fire, wear MSHA/NIOSH approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

**Emergency Procedures:** In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

**Methods for Containment:** Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover waste when possible.

**Methods for Cleanup:** Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be absorbed with water. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

**Handling:** Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or exhaust in work areas. Limit exposure to light. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

**Storage:** Store in a cool, dry, ventilated area. Store away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep out of light. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** Water: No information found.

5-Sulfosalicylic Acid, Dihydrate: No information found.

Sodium Sulfate, Anhydrous: No information found.

**Engineering Controls:** Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Measures:**

**Eye/Face Protection:** Wear safety glasses with side shields or safety goggles. Maintain approved eye wash station and accessible rinse facilities in work area.

**Skin Protection:** Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

**Respiratory Protection:** An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

**Specific Requirements for Personal Protective Equipment:** Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

*Unless otherwise indicated, all properties are given at 25 °C and standard pressure.*

**Appearance:** Colorless, transparent liquid.

**Odor:** Sweet.

**Odor Threshold:** No information found.

**Formula Weight:** Mixture.

**pH:** < 7

**Melting/Freezing Point:** No information found.

**Boiling Point/Range:** > 100 °C

**Decomposition Temperature:** No information found.

**Flash Point:** Not applicable.

**Auto-ignition Temperature:** Not applicable.

**Flammability:** Not flammable.

**Flammability/Explosive Limits:** Not applicable.

**Solubility:** Miscible with water.

**Vapor Pressure:** No information found.

**Vapor Density:** No information found.

**Specific Gravity:** > 1.00 (Water = 1)

**Evaporation Rate:** No information found.

**Viscosity:** No information found.

**Partition Coefficient (n-octanol/water):** No information found.

## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	May be corrosive to certain materials.
<b>Chemical Stability:</b>	Stable under normal conditions. Sensitive to air.
<b>Conditions to Avoid:</b>	Heat, light, exposure to air, incompatible materials.
<b>Incompatible Materials:</b>	Strong oxidizers, acids, strong bases, aluminum, magnesium.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, sulfur oxides, sodium oxides.
<b>Possibility of Hazardous Reactions:</b>	May react vigorously or violently if exposed to excess thermal conditions or in contact with the incompatible materials listed above. Exposure to light causes material degradation.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.
<b>Acute Effects:</b>	Causes burns by all exposure routes. May be harmful if swallowed. May cause irritation if inhaled. Ingested, or exposed to the skin or eyes.
<b>Chronic Effects:</b>	No information found.
<b>Toxicological Data:</b>	Water: Not applicable.
	5-Sulfosalicylic Acid, Dihydrate: LD <sub>50</sub> Oral, Rat: 2450 mg/kg Causes irritation to skin and eyes based on animal data. May cause respiratory irritation based on animal data.
	Sodium Sulfate, Anhydrous: LD <sub>50</sub> Oral, Mouse: 5989 mg/kg
<b>Symptoms of Exposure:</b>	Irritation, nausea, vomiting, diarrhea, abdominal pain, coughing, wheezing, shortness of breath, redness, itchiness, watering eyes. Ingestion may cause severe swelling, severe damage to the delicate tissue and danger of perforation.
<b>Carcinogenic Effects:</b>	No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicological Data:</b>	Water: Not applicable.
	5-Sulfosalicylic Acid, Dihydrate: EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ): > 100 mg/L, 48 h
	Sodium Sulfate, Anhydrous: LD <sub>50</sub> , Western Mosquitofish ( <i>Gambusia affinis</i> ): 56 mg/L, 96 h EC <sub>50</sub> , Water Flea ( <i>Daphnia magna</i> ): 2564 mg/L, 48 h

**Persistence and Degradability:** No information found.

**Environmental Effects:** Not expected to be hazardous to aquatic organisms. However, the possibility of an environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### 13. DISPOSAL INFORMATION

**Disposal Instructions:** Dispose of this material and its container to an approved waste collection point. Minimize exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. All wastes must be handled in accordance with local, state, and federal regulations.

**Contaminated Packaging:** Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

**Waste Codes:** No information found.

### 14. TRANSPORT INFORMATION

**DOT:** Not regulated.

**Environmental Hazard Regulations:** No information found.

**Other Transport Precautions:** No information found.

### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations:

**OSHA:** This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** 5-sulfosalicylic acid, dihydrate, is not on U.S. TSCA Inventory. All other components of this product are on the U.S. TSCA Inventory.

#### U.S. EPCRA (SARA Title III):

**Section 302:** No information found.

#### Sections 311/312:

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

**Section 313:** No information found.

**CERCLA Reportable Quantities:** No information found.

**International Inventories:**

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

**16. OTHER INFORMATION****Disclaimer:**

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**Reason for Revision:**

Not applicable.