



## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product:** p-DMAC Paper  
**Product Number(s):** PF038  
**CAS#:** Mixture  
**Synonyms:** Mixture  
**Manufacturer:** Pioneer Forensics, LLC  
804 E. Eisenhower Blvd.  
Loveland, CO 80537  
Ph: (970) 292-8487  
**Emergency Number:** (800) 255-3924 (CHEM-TEL)  
**Customer Service:** (970) 292-8487

## 2. HAZARDS IDENTIFICATION

**Emergency Overview:** MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT, AND/OR GASTROINTESTINAL TRACT. MAY BE HARMFUL IF SWALLOWED OR EXPOSED TO THE EYES.

*Safety Ratings:* Health: 1, Slight Reactivity: 0, None  
Flammability: 0, None Contact: 1, Slight

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

### Potential Acute Health Effects:

**Routes of Exposure:** Inhalation, ingestion, skin contact, eye contact

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed. May cause irritation of the gastrointestinal tract.

**Skin Contact:** May be harmful if absorbed through skin. May cause skin irritation.

**Eye Contact:** Harmful if exposed to the eyes. Causes eye irritation.

**Target Organs:** Eyes, skin, mucous membranes

**Chronic Health Effects:** Prolonged or repeated exposure may cause allergic reactions or damage to target organs.

**Potential Environmental Effects:** This product is not expected to be harmful to the environment.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Chemical Formula</u>	<u>Formula Weight</u>	<u>Hazardous</u>	<u>% by Weight</u>
p-Dimethylaminocinnamaldehyde	6203-18-5	C <sub>11</sub> H <sub>13</sub> NO	175.23	Yes	≈0.20
Sulfosalicylic Acid, Dihydrate	5965-83-3	C <sub>7</sub> H <sub>6</sub> O <sub>6</sub> S • 2H <sub>2</sub> O	254.21	Yes	≈0.79

### 4. FIRST AID MEASURES

#### First Aid Procedures:

<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, provide artificial respiration. Get medical attention if symptoms persist.
<b>Ingestion:</b>	Do not induce vomiting except as directed by medical personnel. If swallowed, give several glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin Contact:</b>	In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.
<b>Eye Contact:</b>	Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

**General Advice:** Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**Notes to Physician:** Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**NFPA Ratings:** Health: 2      Flammability: 1      Reactivity: 0

**Flammable Properties:** May be combustible at high temperatures.

**Flash Point:** No information found

**Auto-ignition Temp:** No information found

**Flammable Limits in Air (% by volume):** No information found

**Suitable Extinguishing Media:** Water spray, dry powder, carbon dioxide, appropriate foam

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

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, sulfur oxides, phenol

**Specific Hazards:** Exposure to heat or flame may cause fire. High dust concentrations in air may cause explosion hazard.

**Special Protective Equipment 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.

**Specific Methods:** Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing. Avoid transfer of product into the air as dust.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

**Methods for Containment:** Prevent entry into waterways, sewer, basements or confined areas.

**Methods for Cleaning Up:** Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, fleece) and place in a suitable container for reclamation or disposal. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

**Handling:** Wear personal protective equipment (see section 8). Avoid contact with skin, eyes and clothing. Do not ingest or inhale. Keep product and container away from heat, flame, and incompatible materials. Wash thoroughly after handling.

**Storage:** Store in a dry, ventilated area. Store below 0 °C (32 °F) or keep as cool as possible. Keep containers tightly closed. Keep out of light.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

### Exposure Limits:

**Product:** No information found

**Components:** No information found

**Engineering Controls:** In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

### Personal Protective Equipment:

**Eye/Face Protection:** Wear safety glasses or goggles.

**Skin Protection:** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory Protection:** Not expected to require the use of a respirator, however, if engineering controls do not maintain airborne concentrations to an acceptable level, an approved/certified respirator should be worn.

**General Hygiene Considerations:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Treated stock paper
<b>Color:</b>	Orange
<b>Odor:</b>	Faint characteristic
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>pH:</b>	No information found
<b>Specific Gravity:</b>	No information found
<b>Freezing/Melting Point:</b>	No information found
<b>Boiling Point:</b>	No information found
<b>Flash Point:</b>	No information found
<b>Auto Ignition Temperature:</b>	No information found
<b>Flammable Limits in Air (% by Volume):</b>	No information found
<b>Solubility:</b>	No information found
<b>Vapor Pressure:</b>	No information found
<b>Vapor Density:</b>	No information found
<b>Percent Volatile:</b>	No information found
<b>Odor threshold (ppm):</b>	No information found
<b>Evaporation Rate:</b>	No information found
<b>Partition Coefficient (n-octanol/water):</b>	No information found

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Incompatible materials, dust generation, excessive heat, high temperatures, light
<b>Incompatible Materials:</b>	Strong oxidizers, strong bases
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides, sulfur oxides, phenol
<b>Possibility of Hazardous Reactions:</b>	Hazardous decomposition products are formed in excessive thermal conditions or when exposed to the incompatible materials listed above.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological Data:

<b>Product:</b>	No information found		
<b>Components:</b>	p-Dimethylaminocinnamaldehyde: No information found		
	Sulfosalicylic Acid, <i>Anhydrous</i> :	Oral Rat LD50:	1850 mg/kg
		Dermal Rabbit LDL:	7940 mg/kg

<b>Acute Effects:</b>	Hazardous if exposed to eyes or skin. Hazardous if inhaled or ingested.
<b>Local Effects:</b>	Causes irritation to eyes, skin, respiratory system, and mucous membranes. May be harmful if swallowed. May affect behavior.

<b>Sensitization:</b>	Contact with skin may cause sensitization.
<b>Chronic Effects:</b>	Prolonged or repeated contact may cause an allergic reaction.
<b>Carcinogenic Effects:</b>	No information found
<b>Skin Corrosion/Irritation:</b>	Causes skin irritation.
<b>Epidemiology:</b>	No epidemiological data is available for this product.
<b>Mutagenicity:</b>	May be mutagenic based on microorganism data.
<b>Neurological Effects:</b>	No information found
<b>Reproductive Effects:</b>	No information found
<b>Teratogenic Effects:</b>	No information found
<b>Target Organs and Symptoms:</b>	Skin, eyes, mucous membranes, lungs, gastrointestinal tract. Causes irritation, nausea, vomiting, diarrhea, and conjunctivitis.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Data:

<b>Product:</b>	No ecotoxicological data is available for this product.	
<b>Components:</b>	p-Dimethylaminocinnamaldehyde: LC50 Fathead minnow ( <i>Pimephales promelas</i> ):	5.93 mg/L 96 H
	Sulfosalicylic Acid:	No information found

<b>Ecotoxicity:</b>	No information found
<b>Environmental Effects:</b>	This product is not expected to be harmful to the environment.
<b>Aquatic Toxicity:</b>	This product is not expected to be harmful to aquatic life.
<b>Persistence and Degradability:</b>	Degradation may occur with long term exposure to the environment. Products of degradation are no more toxic than the product itself.
<b>Partition Coefficient (n-octanol/water):</b>	No information found

## 13. DISPOSAL INFORMATION

<b>Disposal Instructions:</b>	Dispose of this material and its container in accordance with local, state and federal regulations.
<b>Contaminated Packaging:</b>	Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.
<b>Waste Codes:</b>	No information found

## 14. TRANSPORT INFORMATION

DOT: Not regulated

## 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:** p-Dimethylaminocinnamaldehyde; Sulfosalicylic Acid, *Anhydrous*

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

Sections 311/312:	Hazard Categories	List (Yes/No)
	Section 311 – Hazardous Chemical	Yes
	Immediate Hazard	Yes
	Delayed Hazard	Yes
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

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

\*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

## 16. OTHER INFORMATION

**Product Use:** Laboratory and/or field reagent

**Disclaimer:** Pioneer Forensics LLC provides the information in this Material Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Pioneer Forensics LLC makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against

infringement of any patent, copyright or trademark is made or implied. This MSDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Pioneer Forensics LLC assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

**Issue Date:** 08/23/2013

**Reason for Revision:** Not applicable