

**MATERIAL SAFETY DATA SHEET  
M.S.D.S.**

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**I: PRODUCT IDENTIFICATION INFORMATION**

**TRADENAME (as labeled):** PRINTOL 12 PAPER DEVOLOPER  
**Chemical Name:**  
**Chemical Family:**  
**Formula:** Proprietary - Photographic Paper Developer  
**Synonyms:**

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**EMERGENCY CONTACT:**

**CHEMTREC  
1-800-424-9300**

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**MANUFACTURER'S NAME:** NACCO/ NATIONAL RESEARCH & CHEMICAL  
444 EAST GARDENA BLVD.  
GARDENA, CA. 90248  
**PHONE:** (310) 352-6999  
**FAX:** (310) 527-9963

**Date Prepared:** January 2003

**Department of Transportation: (Shipping Information)**

**Hazardous Classification:** None regulated  
**Shipping Name:** Chemical N.O.S. **Dot Class:** 55  
**Packing Group:** **UN/NA Number:**

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**II: PHYSICAL PROPERTIES**

**V.O.C.:** N/A **Appearance:** Pale yellow  
**Vapor Density (air = 1):** Negligible **Vapor Pressure (at 20°C):** Negligible  
**Specific Gravity(H2O=1):** 1.201 **Boiling Point/Range°F:** 210°F-250°F  
**Solubility in Water:** Complete **Evaporation Rate:** >1  
**Odor:** Mild odor **pH (of 1% solution):** 11.45

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**III: COMPOSITION INFORMATION**

<u>COMPONENTS</u>	<u>CAS#</u>
Sodium Sulfite	7757-83-7
Potassium Carbonate	584-08-7
Hydroquinone	123-31-9
1-Phenyl-3-Pyrazolidinone	92-43-3

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**IV: POTENTIAL HEALTH HAZARD DATA**

**EFFECTS OF ACUTE OVER- EXPOSURE:**

**Eye Contact:** Can and will cause irritation.

**Skin Absorption:** May cause irritation. Avoid prolonged or repeated contact.

**Inhalation:** May cause upper respiratory tract irritation.

**Skin Contact:** May cause irritation.

**Swallowing:** May cause nausea, dizziness and headache.

**Other Health Hazards:** None known.

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**V: FIRST AID EMERGENCY PROCEDURES**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

**Skin Contact:** Immediately wash with plenty of soap and water for at least 15 minutes.

**Inhalation:** Immediately move to fresh air. If irritation continues, get medical attention.

**Swallowed:** Immediately contact physician. If conscious, give large amounts of water.

**Other:** None known.

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**VI: FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** 329°F (c.c.) most hazardous ingredient

**Flammable Limits:** Not determined.

**Lower:**

**Upper:**

**Extinguishing Media:**

**Water Spray:** X

**Foam:**

**Carbon Dioxide:** X

**Dry Chemical:** X

**Special Fire Fighting Procedures:** Wear NIOSH approved, self-contained breathing apparatus and protective clothing against contact with skin and eyes.

**Unusual Fire/Explosion Hazard:** Fire or excessive heat may cause production of hazardous decomposition products.

**Other:** None known

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**VII: REACTIVITY DATA**

**Stability:**

**Stable:** X

**Unstable:**

**Conditions to Avoid:** Direct heat

**Incompatibility:** Strong oxidizers release sulfur dioxide gas.

**Hazardous combustion's or Decomposition Products:** Yields sulfur dioxide and sodium sulfide residue.

**Hazardous Polymerization:**

**May Occur:**

**Will Not Occur:** X

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**VIII: SPILL, LEAK AND DISPOSAL PROCEDURES**

**Steps to be taken:** Contain spill by inorganic, non-combustible absorbent, such as, sand, pads or inert material.

**Preparing waste for disposal:** For disposal or discharge, contact Federal, State or Local Agencies.

**NOTE: DISPOSE OF ALL WASTE ACCORDING WITH FEDERAL, STATE AND LOCAL REGULATIONS.**

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**IX: SPECIAL HANDLING INFORMATION**

**Respiratory Protection:** Wear required NIOSH approved respirator.

**Ventilation:** Good general ventilation is required.

**Protective Gloves:** Rubber or plastic, impervious gloves.

**Eye Protection:** Safety goggles should be worn in chemical handling.

**Other clothing and Equipment:** Apron or lab coat. Also safety shower and eye bath.

**Work practices, hygienic requirements:** Avoid unnecessary personal contact. Wash hands thoroughly with soap and water after handling.

**Other handling and storage requirements:** Store above 48°F.  
KEEP OUT OF REACH OF CHILDREN.

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**X: OTHER INFORMATION**

**HMIS RATINGS CHART:**

**HMIS:**

<b>Health:</b>	2	<b>Flammability:</b>	0
<b>Reactivity:</b>	1	<b>Personal Protection:</b>	D

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**XI: REGULATORY INFORMATION**

**SARA TITLE III - SECTION 311/312:**

N- Fire Hazard  
N-Sudden release of pressure hazard  
N-Reactivity hazard  
N-Immediate health hazard (acute)  
Y-Delayed health hazard (chronic)

**SARA TITLE III - SECTION 302/304:**

This product does not contain extremely hazardous substances at levels, which could require reporting.

**SARA TITLE III = SECTION 313:**

This product does not contain toxic chemicals at levels, which require reporting.

**OZONE - DEPLETING CHEMICALS:**

None

**CERCLA REPORTABLE QUANTITY:**

None

Material Safety Data Sheet: PRINTOL 12 PAPER DEVELOPER

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**TSCA STATUS:**

All components of these products are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**OSHA REGULATIONS:**

Do not apply to this material or it's components. At levels which require reporting.

**CALIFORNIA PROPOSITION 65:**

This product does not contain chemicals known to the State of California to cause cancer.

**CALIFORNIA SCAQMO RULE 443.1:**

VOC - not applicable.