

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

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I: PRODUCT IDENTIFICATION INFORMATION

TRADENAME (as labeled): ULTRAFINE PAPER DEVELOPER
Chemical Name:
Chemical Family:
Formula: Proprietary- Photographic Film Developer
Synonyms:

EMERGENCY CONTACT:

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

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

Department of Transportation: (Shipping Information)

Date Prepared: January 2003

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

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): 1.115	Boiling Point/Range°F: 215°F
Solubility in Water: Complete	Evaporation Rate: >1
Odor: Mild Odor	pH (of 1% solution): 9.63

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III: COMPOSITION INFORMATION

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

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, fatigue, dizziness and headache.

Other Health Hazards: None known.

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. If irritation continues, get medical attention.

Inhalation: Immediately move to fresh air. Get medical attention.

Swallowed: Do not induce vomiting. If conscious, give two large glasses of water. Immediately contact physician.

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:	X
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

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

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: Where required, wear NIOSH approved respirator.

Ventilation: Good general ventilation is required.

Protective Gloves: Rubber or plastic, impervious gloves recommended.

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.

X: OTHER INFORMATION

HMIS RATINGS CHART:

HMIS:

Health:	2	Flammability:	0
Reactivity:	0	Personal Protection:	B

XI: REGULATORY INFORMATION

SARA TITLE III - SECTION 311/312:

N- Fire Hazard
N-Sudden release of pressure hazard
N-Reactivity hazard
Y-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

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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.