

<p style="text-align: center;">MATERIAL SAFETY DATA SHEET M.S.D.S.</p>
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I: PRODUCT IDENTIFICATION INFORMATION

TRADENAME (as labeled): ULTRAFINE FILM DEVELOPER
Chemical Name:
Chemical Family: Powder Formula
Formula: Proprietary - Photographic
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: October 2002

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: White powder

Vapor Density (air = 1): N/A

Vapor Pressure (at 20°C): Not applicable

Specific Gravity(H2O=1): N/A

Boiling Point/Range°F: Not Applicable

Solubility in Water: Complete

Evaporation Rate: N/A

Odor: Faint odor

pH (of 1% solution): 9.6 to 9.8

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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: Avoid breathing dust. Dust may cause upper respiratory tract irritation.

Skin Contact: May cause irritation.

Swallowing: Maybe harmful , May cause nausea, 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. If irritation occurs, get medical attention.

Skin Contact: Flush with plenty of soap and water. If irritation continues get medical attention.

Inhalation: Immediately move to fresh air.

Swallowed: If conscious, give 2 large glasses of water. Immediately contact physician. IF UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH.

Other: None known.

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VI: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not-Flammable

Flammable Limits: N/A

Lower:

Upper:

Extinguishing Media: Material is not flammable

Water Spray: X **Foam:** X

Carbon Dioxide: X **Dry Chemical:** X

Use extinguishing media appropriate for material for surrounding fire.

Special Fire Fighting Procedures: Wear Self-contained NIOSH Approved breathing apparatus.

Unusual Fire/Explosion Hazard: None Known

Other: None

VII: REACTIVITY DATA

Stability:

Stable: X

Unstable:

Conditions to Avoid: Strong acids will generate heat and sulfur dioxide.

Incompatibility: Strong oxidizer: cause vigorous exothermic reactions.

ACIDS: Releases sulfur dioxide gas.

Hazardous combustion's

Or Decomposition Products: 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. Shovel into empty container and cover. Rinse any residue with plenty of water. Provide Ventilation.

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: Use approved dust respirators

Ventilation: Local exhaust is recommended. Use in well ventilated area.

Protective Gloves: Rubber or plastic, gloves.

Eye Protection: Safety glasses or 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 tightly sealed.
KEEP OUT OF REACH OF CHILDREN.

X: OTHER INFORMATION

HMIS RATINGS CHART:

HMIS:

Health:	1	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
N-Immediate health hazard (acute)
N-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.