

MATERIAL SAFETY DATA SHEET
 NU SOURCE International Inc., Crystal Lake, IL 60012 (815)477-3844

75365705

Hazard Rating Guide
 Health = Slight
 Fire = None
 Reactivity = None
The use of Goggles and Gloves recommended

Section I: General Information

Product Name: **INSTADENT™ DEVELOPER & FIXER**
 Formula: Aqueous Mixture Chemical Family: Photographic solution
 Emergency Situation Call: Chemtrec (800) 424-9300 Date Prepared: 07/01/01

Section II: Product and Hazardous Ingredients Information

A. Principal Components:	CAS #	Percent	ACGIH TLV	OSHA PEL	S.A.R.A. TPQ	S.A.R.A. RQ	Teratogenicity	
							LD50	LC50
Developer								
Water	7732-18-5	Approx 85	n/a (Not Applicable)	n/a	n/a	n/a	unk	unk
Potassium Sulfite	10117-38-1	< 4	n/a	n/a	n/a	n/a	unk	unk
Sodium Sulfite	7757-83-7	< 3	n/a	n/a	n/a	n/a	unk	unk
Hydroquinone	123-31-9	< 3	2mg/m3	2mg/m3	500 Lbs	1 lb.	400mg/Kg	Unk
Hydroquinone	1310-58-3	< 2	2mg/m3	2mg/m3	n/a	1000 lb.	365mg/Kg	Unk
Sodium/Potassium Metaborate	---	< 2	n/a	n/a	n/a	n/a	unk	unk
Fixer								
Water	7732-18-5	Approx 50	n/a	n/a	n/a	n/a	unk	unk
Ammonium Thiosulfate	7783-18-8	< 15	n/a	n/a	n/a	5000LB	unk	unk
Acetic Acid	64-19-7	< 4	10ppm	10ppm	n/a	5000LB	unk	unk
Sodium Sulfite	7757-83-7	< 2	n/a	n/a	n/a	n/a	unk	unk
Sodium Thiosulfate	7772-98-7	< 2	n/a	n/a	n/a	n/a	unk	unk

Section III: Hazards Identification

Appearance and Odor: Developer: Pale yellow, odorless liquid.
 Fixer: Clear white liquid, slight floral fragrance.
Effects of over exposure:
 Eyes - May cause burning or irritation of eyes and mucous membranes.

Section IV: First Aid Measures

Eyes: Wash eyes immediately if contact occurs. Flush eyes with steady stream of fresh water for 15 minutes, lifting upper and lower eyelids frequently. Seek medical attention if symptoms develop.
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Section V: Fire Fighting Measures

Flammability: Low Hazard. Not controlled within WHMIS Division Class B. Not flammable at ambient temperature.
Flash Point: None. **Flammability Methods:** Not applicable

Section VI: Accidental Release Measures: Spill Response: Small spill: Wear protective clothing as specified in section VIII. Neutralize with Sodium Sulfite. Wipe or absorb with sand, clay or other absorbent material.

Section VII: Handling and Storage:

Do not consume food, drink or tobacco in area where contact with product may occur.
 Provide general exhaust in the storage area.
 Keep container tightly sealed. Avoid incompatible substances.
 Avoid unnecessary personal contact.
 Wash thoroughly after handling.

Section IX: Physical and Chemical Properties:

Specific Gravity (Water=1): Developer: 1.100. Fixer: 1.110
pH: Developer: 12.25. Fixer: 5.10
Boiling Point: >212°F (>100°C). **Freeze Point:** < 30°F (0°C)
Odor Threshold: n/a
Vapor Density: (Air=1): 6 mm Hg

Section X: Stability and Reactivity Data

Stability: Stable
Incompatibility: None with the materials and products which product is designed for use with. Mixing developer with fixer will cause ammonia gas. This will dissipate quickly as pH is neutralized.

Section XI: Toxicological Information

Toxicity: No data available
Carcinogenicity: Not Available
Acute Systemic Effects: Data not Available. Minimal Toxicity
Chronic Systemic Effects: No evidence of adverse effects from available information.
Exposure Limits: Refer to section II

Section XII: Ecological Information: No Data Available

Section XIII: Disposal Considerations: Dispose of in accord with Federal, State, and/or Local laws.

Section XIV: Transport Information: Dept of Transportation: Shipping Name- n/a

Hazard Class- Not A WHMIS controlled Product

Section XV: Regulatory Information: State-International: refer to Section II. WHMIS listed.

Section XVI: Other Information: The information contained in this Material Safety Data Sheet is furnished without warranty of any kind. The user should consider this data a supplement to other information gathered and must make independent determination of suitability and completeness of information from this and other sources to ensure proper use and

Skin: May cause mild irritation and/or allergic reaction.
Ingestion: Seek immediate medical advice giving full details of amount swallowed and toxicity.
Inhalation: Prolonged inhalation of fumes may be irritating and may cause headaches.
Skin: Rinse with plenty of water and Wash thoroughly after contact with warm soap and water. Remove contaminated clothing and shower if appropriate. If irritation persists, seek medical attention.
Ingestion: Do not induce vomiting. Seek medical attention immediately
Auto Ignition: Not applicable
Extinguishing Media: CO2 Foam, Dry chemical. Keep containers cool with water spray.

Section VIII: Exposure Control Measures:

Respiratory: None should be needed.
Ventilation: Good general ventilation.
Eye Protection: Safety Glasses or Goggles recommended for handling chemicals in industrial application.
Skin Protection: Chemical resistant Gloves should be worn.
Other Protective Equipment: As necessary to prevent eye and skin contact.

Vapor Pressure: < 17 mm Hg @ 20°C
Water Solubility: Complete
Coefficient of Water/Oil: n/a
Percent Volatile by Volume: 90 - 95%
Evaporation Rate: (Water=1): n/a

Hazardous Decomposition Products: Sulfur dioxide.
Hazardous Polymerization: Will not occur
Reactivity: No Reactivity
Hazardous Decomposition: Carbon Dioxide, Carbon Monoxide

Teratogenicity: n/a
Reproductive Toxicity: n/a
Mutagenicity: n/a
Synergistic Products: n/a
LD50 LC50: refer to Section II