

MATERIAL SAFETY DATA SHEET

SECTION 1 - General Information

PRODUCT NAME	RP-3 Automatic x-ray Developer Concentrate, Part B				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH 3	FLAMMABILITY 1	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG # 4010D-RP3, 45200D-RP3			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Diethylene glycol (2-hydroxyethyl ether)	111-46-6	70-80	OSHA TWA 10 ppm	12565 mg/kg	130 mg/m ³ 2h
Acetic acid	64-19-7	<10	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h
1-phenyl-3-pyrazolidinone	92-43-3	3-7	not listed	200 mg/kg	not available
Water	7732-18-5	3-7	not listed	42.6 gm/kg	not available
Indazole Derivative	5401-94-5	<1	Not established	not available	not available

SECTION 3 - Hazards Identification

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

WARNING: Avoid contact with skin, eyes or clothing. May cause severe irritation and possible burns to eyes, skin and respiratory tract. Ingestion may cause nausea and vomiting and diarrhea.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged skin contact may cause allergic reaction or dermatitis.

SECTION 4 - First Aid Measures

SKIN CONTACT

Wash exposed skin thoroughly with cold water for 15 minutes. If irritation persists seek medical advice.

EYE CONTACT

Flush eyes with water for at least 15 minutes. Seek medical attention immediately.

INGESTION

DO NOT induce vomiting. Seek medical attention if symptoms appear.

INHALATION

If inhaled, immediately remove to fresh air. If irritation persists seek medical advice.

SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES NO IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
255 °F cc	10.8 %	1.6%	444 °F
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
See "Hazardous Decomposition Products".	Not susceptible	Not susceptible	Not susceptible

SECTION 6 - Accidental Release

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear appropriate protective equipment.

SECTION 7 - Handling and Storage

Read and follow the label, material safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.

SECTION 8 - Exposure Controls

VENTILATION Good general ventilation. Acid gas/organic if ventilation not adequate
 SKIN Nitrile gloves EYE Splash goggles RESPIRATORY
 OTHER Eye wash station

SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear yellow liquid with slight vinegar odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 13 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT >212°F	FREEZING POINT <32°F
pH 2.6	SPECIFIC GRAVITY 1.135 ± .005	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES NO IF NO, UNDER WHAT CONDITIONS
 Strong reducing agents and strong bases

INCOMPATIBILITY WITH OTHER SUBSTANCES YES NO IF YES, WHICH ONES?

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of nitrogen, oxides of carbon, sulfur oxides

SECTION 11 - Toxicological Information

EXPOSURE LIMITS TWA: 10 (ppm)	IRRITANCY OF PRODUCT Eye: Irritant Skin: Irritant	SENSITIZATION TO PRODUCT May cause dermatitis	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Mutagenic for bacteria	SYNERGISTIC PRODUCTS Not known

SECTION 12 - Ecological Information

Ecotoxicity in water (LC50): 423 mg/l 24 hours [Fish (Goldfish)]. 88 ppLm 96 hours [Fish (fathead minnow)]. 75 ppm 96 hours [Fish (bluegill sunfish)]. >100 ppm 96 hours [Daphnia]. BOD5 and COD: BOD-5: 0.34-0.88 g oxygen/g

SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

SECTION 14 - Transportation Information

Not regulated for transportation by DOT and TDG

SECTION 15 - Regulatory Information

TSCA 8(b) inventory: Acetic acid
 CERCLA: Hazardous substances.: Acetic acid: 5000 lbs. (2268 kg)
 California Director's List of Hazardous Substances (8 CCR 339): Acetic acid
 RTK Listed in New York, Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey
 D2-B (materials causing other toxic effects) under Canadian WHMIS regulations.

SECTION 16 - Other Information

The information contained in this MSDS is furnished without warranty of any kind. The user should consider this data a supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.