



MATERIAL SAFETY DATA SHEET

P22 DEVELOPER - B - ILFOCHROME RAPID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: P22 DEVELOPER - B - ILFOCHROME RAPID

SYNONYMS: DE 22.15 Part B

PART No.: IP920327DE22.15

UN/NA (PIN) No.: 0

EMERGENCY TELEPHONE: FOR MEDICAL EMERGENCY IN THE UNITED STATES AND CANADA CALL 1-800-842-9660 (PRODUCT MISUSE). FOR TRANSPORTATION EMERGENCY CALL CHEMTREC 1-800-424-9300.

SUPPLIER: ILFORD Imaging USA Inc
West 70 Century Road, Paramus, NJ 07653
Tel: 201-265-6000

CONTACT PERSON: Bryan Sammartino

2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
HYDROQUINONE	123-31-9	10-30 %		
1-PHENYL-4-METHYL-3-PYRAZOLIDONE	2654-57-1	1-5 %		
BENZOTRIAZOLE	95-14-7	0-1 %		
STILBENE DISULFONATE	68155-70-4	1-5 %		
ETHYLDIGLYCOL	111-90-0	30-60 %		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colorless or pale yellow, odorless, weakly alkaline, water-based, non-flammable liquid. Contains hydroquinone.

May cause sensitisation by skin contact.

ACUTE EFFECTS:

INHALATION: No specific health warnings noted.

INGESTION: No specific health warnings noted.

SKIN: May cause sensitisation by skin contact. May cause allergic contact eczema.

EYES: No specific health warnings noted.

CHRONIC EFFECTS:

HEALTH WARNINGS:

Prolonged or repeated exposure may cause severe irritation. May cause skin irritation/eczema. May cause sensitisation by skin contact. Liquid may irritate the skin. May cause allergy. May cause hypersensitivity.

ROUTE OF ENTRY:

Ingestion. Skin and/or eye contact.

MEDICAL INFORMATION:

May aggravate existing: Skin disorders and allergies.

4. FIRST AID MEASURES

INHALATION:

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION:

DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Get medical attention immediately! Immediately give a couple of glasses of water, provided the victim is fully conscious.

SKIN:

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYES:

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

This material is not flammable. Use extinguishing media appropriate for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES:

Use appropriate protective clothing. Do not contaminate drainage or waterways. Absorb spill with non-reactive absorbent and place in non-reactive containers for disposal. Contain Spill. Use large quantities of water to flush small spills to sanitary sewer if local regulations permit. Do not flush to septic tank. See Section 13 for disposal considerations. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. Inform Authorities if large amounts are involved.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Avoid spilling, skin and eye contact. Provide good ventilation. Individuals liable to allergic reactions should not handle the product. Read and follow manufacturer's recommendations.

STORAGE PRECAUTIONS:

Keep in cool, dry, ventilated storage and closed containers. Store below 75°F. Keep in original container. Keep containers closed tightly.

STORAGE CRITERIA:

Chemical storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:**ENGINEERING CONTROLS:**

Provide eyewash station and safety shower.

VENTILATION: Provide adequate general and local exhaust ventilation. Must not be handled in confined spaces without adequate ventilation. General room ventilation should provide for 10 - 15 room air changes per hour.

RESPIRATORS: Respiratory protection must be used if air concentration exceeds acceptable level. An acid gas/organic vapor cartridge should be used.

PROTECTIVE GLOVES:

Use protective gloves made of: Rubber (natural, latex). Neoprene. Polyethylene.

EYE PROTECTION:

Wear approved safety goggles.

PROTECTIVE CLOTHING:

Wear appropriate clothing to prevent any possibility of skin contact. Wear rubber apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Liquid. Water soluble.	
COLOR:	Colorless.	
ODOR:	Slight. Solvent.	
SOLUBILITY DESCRIPTION:	Soluble in water.	
BOILING POINT (°F, interval):	212	PRESSURE: 760mmHg
DENSITY/SPECIFIC GRAVITY (g/ml):	1.05	TEMPERATURE (°F): 68
pH-VALUE, CONC. SOLUTION:	7	

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:
Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERIZATION:
Will not polymerize.

MATERIALS TO AVOID:
Avoid contact with other photographic solutions and/or cleaning compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:
No specific hazardous decomposition products noted.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD 50: hydroquinone 320; Phenidone Z 512; benzotriazole 700 mg/kg (oral rat)

TOXICOLOGICAL INFORMATION:
This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

12. ECOLOGICAL INFORMATION

LC 50, 96 HRS, FISH, mg/l: 0.1 hydroquinone; 130 benzotriazole
 EC 50, 48 HRS, DAPHNIA, mg/l: 20 benzotriazole
 IC 50, 72 HRS, ALGAE, mg/l: 1.0 hydroquinone; 15.4 benzotriazole

ECOLOGICAL INFORMATION:

Not regarded as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS:**

Dispose of in accordance with Local Authority requirements. Unused and spent solutions may be allowed to be discharged to sanitary sewer by permit IF allowed by local regulations. Consult your local authority for advice. Waste may have to be pretreated before discharge. Consult local authorities before discharging any waste to sewer. Do not discharge to septic system. Waste that cannot be discharged to sewer may have to be handled by a licensed hazardous waste contractor.

14. TRANSPORT INFORMATION**GENERAL:**

To obtain additional information on packaging for shipment refer to the Code of Federal Regulations - CFR 49 and your carrier.

U.S. DOT:**UN/NA No.:**

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U.S. DOT HAZARD LABEL:

No DOT label requirement noted

U.S. DOT CLASS:

No classification noted.

INFORMATION ON ROAD TRANSPORT: Not classified for road transport

SEA TRANSPORT:

INFORMATION ON SEA TRANSPORT: Not classified for sea transport

AIR TRANSPORT:

INFORMATION ON AIR TRANSPORT: Not classified for air transport

15. REGULATORY INFORMATION**REGULATORY STATUS OF INGREDIENTS:**

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
1-PHENYL-4-METHYL-3-PYRAZOLIDONE	2654-57-1	Yes	No	No	No	Yes
BENZOTRIAZOLE	95-14-7	Yes	No	No	No	Yes
STILBENE DISULFONATE	68155-70-4	Yes	No	No	No	Yes
ETHYLDIGLYCOL	111-90-0	Yes	No	No	No	Yes

US FEDERAL REGULATIONS:**REGULATORY STATUS:**

TSCA: The ingredients of this product are on the TSCA Inventory.

ENVIRONMENTAL LISTING:

Hydroquinone: Clean Air Act, S.111 (40 CFR 60-EPA). IARC - Animal carcinogen. IARC-Int. Agency for Cancer Research. DOT Hazardous Mat. Transp. Act (49 CFR). NTP-Annual Plan (DHHS). NIOSH Criteria Documents. IRPTC-International Register of Potentially Toxic Chemicals (UNEP). OSHA Chemical Hazard Communic. Std. - Air Contaminants (29CFR1910). ACGIH Threshold Limit Values. EPA Reportable & Threshold Quantities. SARA Section 302, Extremely Hazardous Substances. SARA Section 313, Toxic Chemicals. SARA Title III Consolidated Chemical List (302, CERCLA, 313, RCRA).

STATE REGULATIONS:**STATE REGULATORY STATUS:**

Florida Hazardous Substance List Massachusetts Extraordinarily Hazardous Substances List Massachusetts Right-to-Know. New Jersey Right-to-Know. NJ Environmental Hazardous Substances List NJ Special Hazardous Substances List Pennsylvania Right-to-Know.

16. OTHER INFORMATION

USER NOTES:

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INFORMATION SOURCES:

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Safeware Quasar Ltd
USA Regulatory Information ANSI Z400.1-1998 Material Safety Data Sheets - Preparation

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REVISION No./Repl. MSDS of:

16/5/97