



MATERIAL SAFETY DATA SHEET

P23 DEVELOPER - A - ILFOCHROME CLASSIC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: P23 DEVELOPER - A - ILFOCHROME CLASSIC

SYNONYMS: DE 23.9 Part A

PART No.: IP901024DE23.9 P

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:
DIETHYLENETRIAMINE PENTAACETIC ACID-NA5	67-43-6	0-1 %		
POTASSIUM CARBONATE	584-08-7	1-5 %		
POTASSIUM HYDROGEN CARBONATE	298-14-6	1-5 %		
POTASSIUM SULFITE	10117-38-1	10-30 %		
SODIUM THIOSULPHATE, ANHYDROUS	7772-98-7	0-1 %		
POTASSIUM BROMIDE	7758-02-3	1-5 %		

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

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

Irritating to respiratory system and skin.

ACUTE EFFECTS:

INHALATION: May cause irritation to the respiratory system.

INGESTION: May cause discomfort if swallowed.

SKIN: Irritating to skin.

EYES: No specific health warnings noted.

CHRONIC EFFECTS:

HEALTH WARNINGS:

Prolonged or repeated exposure may cause severe irritation. May cause irritation to the respiratory system. Liquid may irritate the skin.

ROUTE OF ENTRY:

Inhalation. Ingestion. Skin and/or eye contact.

MEDICAL INFORMATION:

May aggravate existing: Chronic respiratory and obstructive airway diseases. 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.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide (CO₂). Sulfur dioxide.

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. Persons with impaired lung functions should not handle this preparation. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Liquid. Water soluble.	
COLOR:	Colorless.	
ODOR:	No characteristic odor.	
SOLUBILITY DESCRIPTION:	Soluble in water.	
BOILING POINT (°F, interval):	212	PRESSURE: 760mmHg
DENSITY/SPECIFIC GRAVITY (g/ml):	1.35	TEMPERATURE (°F): 68
pH-VALUE, CONC. SOLUTION:	10.1	

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:

Avoid contact with acids. 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:

Irritating gases/vapors/fumes of: Sulfur dioxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD 50: sodium thiosulphate >5000; potassium carbonate >2000; potassium bromide >5000 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: >130 potassium sulphite; 3200 potassium bromide; >300 DTPA

EC 50, 48 HRS, DAPHNIA, mg/l: >10 DTPA

ECOLOGICAL INFORMATION:

Not regarded as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS:**

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.:**

0

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):
DIETHYLENETRIAMINE PENTAACETIC ACID-NA5	67-43-6	Yes	No	No	No	Yes
POTASSIUM CARBONATE	584-08-7	Yes	No	No	No	No
POTASSIUM HYDROGEN CARBONATE	298-14-6	Yes	No	No	No	Yes
POTASSIUM SULFITE	10117-38-1	Yes	No	No	No	
POTASSIUM BROMIDE	7758-02-3	Yes	No	No	No	Yes

US FEDERAL REGULATIONS:**REGULATORY STATUS:**

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

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:

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