

## MATERIAL SAFETY DATA SHEET

### ILFOSTOP

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME ILFOSTOP

PART No. IP9707

SUPPLIER ILFORD Imaging USA Inc., West 70 Century Road,  
Paramus, NJ 07653 USA; Tel USA: 201-265-6000  
ILFORD Imaging Canada Ltd., 361 Steelcase Road West,  
Unit #4, Markham, Ontario, Canada, L3R 3V8, Tel Canada: 905-479-2555

CONTACT PERSON Technical Service (USA), Terry Bevens (Canada)

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.

#### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
BROMOCRESOL PURPLE	115-40-2	0-1 %
WATER		60-100 %
CITRIC ACID	77-92-9	10-30 %

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

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

Irritating to eyes and skin.

##### ACUTE EFFECTS

INHALATION No specific health warnings noted.

INGESTION May cause discomfort if swallowed.

SKIN Irritating to skin.

EYES Irritating to eyes.

##### CHRONIC EFFECTS

SENSITIZATION No known information.

CARCINOGENICITY This substance has no evidence of carcinogenic properties.

TERATOGENICITY No known information.

MUTAGENICITY No known information.

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HEALTH WARNINGS	Severely irritating by prolonged or repeated exposure. Irritating. The liquid can irritate the skin.
ROUTE OF ENTRY	Ingestion. Skin and/or eye contact.
MEDICAL INFORMATION	May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

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#### 4. FIRST AID MEASURES

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

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#### 5. FIRE FIGHTING MEASURES

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EXTINGUISHING MEDIA	This material is not flammable. Use extinguishing media appropriate for surrounding fire.
UNUSUAL FIRE & EXPLOSION HAZARDS	No unusual fire or explosion hazards noted.
HAZARDOUS COMBUSTION PRODUCTS	Fire creates: Vapors/gases/fumes. Carbon dioxide (CO2).

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#### 6. ACCIDENTAL RELEASE MEASURES

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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.
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#### 7. HANDLING AND STORAGE

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HANDLING PRECAUTIONS	Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Provide good ventilation.
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.

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#### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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##### PROTECTIVE EQUIPMENT



<b>ENGINEERING CONTROLS</b>	Provide eyewash station and it is recommended that a safety shower is also available.
<b>VENTILATION</b>	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.
<b>RESPIRATORS</b>	Respiratory protection must be used if air concentration exceeds acceptable level. An acid gas/organic vapor cartridge should be used.
<b>PROTECTIVE GLOVES</b>	Use protective gloves made of: Neoprene, nitrile, polyethylene Butyl rubber. Use thin cotton gloves inside the rubber gloves if allergy risk.
<b>EYE PROTECTION</b>	Wear approved safety goggles.
<b>PROTECTIVE CLOTHING</b>	Wear appropriate clothing to prevent any possibility of skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE</b>	Liquid.			
<b>COLOR</b>	Orange.			
<b>ODOR</b>	Odorless or no characteristic odor.			
<b>SOLUBILITY DESCRIPTION</b>	Soluble in water. 100%			
<b>BOILING POINT (°C, interval)</b>	>100	<b>Pressure</b>		760mmHg
<b>MELT/FREEZ. POINT (°C, interval)</b>	<0			
<b>DENSITY/SPECIFIC GRAVITY (g/ml)</b>	1.106	<b>Temperature (°C)</b>		20
<b>VAPOUR PRESSURE</b>	- Not Known	<b>Temperature (°C)</b>		
<b>EVAPORATION RATE</b>	1	<b>Reference</b>		H2O (water)=1
<b>pH-VALUE, CONC. SOLUTION</b>	1			
<b>PARAMETER</b>		<b>TEST METHOD</b>	<b>TEST RESULT</b>	<b>UNIT REFERENCE</b>
VOC's: SWISS ORD. 814.018			0 %	
VOC's: EU		Vapour pressure >0.01kPa	0 %	

## 10. STABILITY AND REACTIVITY

<b>STABILITY</b>	Normally stable.
<b>CONDITIONS TO AVOID</b>	Avoid excessive heat for prolonged periods of time.
<b>HAZARDOUS POLYMERIZATION</b>	Will not polymerize.
<b>MATERIALS TO AVOID</b>	Avoid contact with other photographic solutions and/or cleaning compounds.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	High temperatures generate: Vapors/gases/fumes of: Carbon dioxide (CO <sub>2</sub> ).

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**11. TOXICOLOGICAL INFORMATION**

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**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.

**TOXIC DOSE - LD 50** citric acid >5000 mg/kg (oral rat)

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**12. ECOLOGICAL INFORMATION**

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**EC 50, 48 HRS, DAPHNIA, mg/l** 1535 citric acid

**ECOLOGICAL INFORMATION** Not regarded as dangerous for the environment.

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**13. DISPOSAL CONSIDERATIONS**

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**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.

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**14. TRANSPORT INFORMATION**

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

**DOT HAZARD CLASS** No classification noted.

**U.S. DOT HAZARD LABEL** No DOT label requirement noted

**SEA TRANSPORT NOTES** Not classified for sea transport

**AIR TRANSPORT NOTES** Not classified for air transport

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**15. REGULATORY INFORMATION**

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**US FEDERAL REGULATIONS**

COMPONENT	SARA 302	CERCLA	SARA 313
BROMOCRESOL PURPLE			No

**CLEAN AIR ACT****US STATE REGULATIONS**

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

**ENVIRONMENTAL LISTING** No environmental listing noted.

**WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS**

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LABEL(S) FOR SUPPLY



CONTROLLED PRODUCT  
CLASSIFICATION

This Material Safety Data Sheet has been prepared in compliance with the Controlled Product Regulations. Canadian WHMIS Classification.

COMPONENT	INVENTORIES								
	CAN	US	EU	AUS	JAP	KOR	CHN	PLP	
BROMOCRESOL PURPLE	NDSL	Yes							

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16. OTHER INFORMATION

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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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