



MATERIAL SAFETY DATA SHEET BROMOPHEN - B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	BROMOPHEN - B
SYNONYMS:	B3/B
PART No.:	BPHNB
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:
SODIUM CARBONATE	497-19-8	30-60 %		
SODIUM SULPHITE	7757-83-7	30-60 %		
POTASSIUM BROMIDE	7758-02-3	1-5 %		
BENZOTRIAZOLE	95-14-7	0-1 %		
SODIUM TRIPOLYPHOSPHATE	7758-29-4	1-5 %	5 000 lbs	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

White, odorless, non-flammable powder. Soluble in water.

Irritating to eyes, respiratory system and skin.

ACUTE EFFECTS:

INHALATION: Dust may irritate respiratory system or lungs.

INGESTION: May cause discomfort if swallowed.

SKIN: Irritating to skin.

EYES: Irritating to eyes.

CHRONIC EFFECTS:

HEALTH WARNINGS:

Prolonged or repeated exposure may cause severe irritation. May cause irritation to the respiratory system. Irritating to eyes. 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.
Pre-existing eye problems.

4. FIRST AID MEASURES

INHALATION:

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Rinse nose and mouth with water. 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:

Sulfur dioxide. Carbon dioxide (CO₂).

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN-UP PROCEDURES:

Use appropriate protective clothing. Do not contaminate drainage or waterways. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Contain Spill. 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. Avoid handling which leads to dust formation. 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: All handling to take place in well ventilated area. If enclosed handling cannot be guaranteed, ventilation and protective clothing must be used. Provide sufficient ventilation for operations causing dust formation. General room ventilation should provide for 10 - 15 room air changes per hour.

RESPIRATORS: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear respirator if there is dust formation.

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 dust masks in dusty areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Powder, dust. Water soluble.
COLOR:	White.
ODOR:	No characteristic odor.
SOLUBILITY DESCRIPTION:	Soluble in water.
pH-VALUE, CONC. SOLUTION:	10.15

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 sulphite 2610; sodium tripolyphosphate 3900; sodium carbonate 4090; benzotriazole 700 mg/kg (oral rat)
TOXIC CONC. - LC 50:	benzotriazole 1.9 mg/l/4h (inh-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: 2600 sodium sulphite; 130 benzotriazole
 EC 50, 48 HRS, DAPHNIA, mg/l: 69 sodium sulphite; 20 benzotriazole
 IC 50, 72 HRS, ALGAE, mg/l: benzotriazole 15.4

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):
POTASSIUM BROMIDE	7758-02-3	Yes	No	No	No	Yes
BENZOTRIAZOLE	95-14-7	Yes	No	No	No	Yes
SODIUM TRIPOLYPHOSPHATE	7758-29-4	Yes	Yes			Yes

US FEDERAL REGULATIONS:

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

STATE REGULATIONS:

STATE REGULATORY STATUS: Massachusetts Right-to-Know. New Jersey Right-to-Know. 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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