

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET Microphen Developer (Part B)

1. IDENTIFICATION

Product Name Microphen Developer (Part B)
Product No. 1173875
Internal Id 10120
Container Size 125g
Identified uses Photographic Developer
Supplier Distributors
USA: WYNIT Inc, 5801 East Taft Road, North
Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469
9648) or 1 315 437 4167, Fax: 1 315 437 0432
Canada: Amplis Foto Inc, 22 Telson Road,
Markham, Ontario L3R 1E5, Tel: 905 477 4111,
Fax: 905 477 2502
Contact Person USA: ilfordhelp@wynit.com; Canada: phil.nielsen@amplis.com
Emergency Telephone USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. HAZARD(S) IDENTIFICATION

Appearance Powder, dust
Color White.
Odor No characteristic odor.
GHS Pictogram
No pictogram required.

Precautionary Statements

P102	Keep out of reach of children.
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GHS Classification

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label



Materials Causing Other
Toxic Effects.

Controlled Product Classification

Canadian WHMIS Classification D2B

Inhalation

Dust may irritate respiratory system or lungs.

Ingestion

May cause discomfort if swallowed.

Skin Contact

Powder may irritate skin.

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Eye Contact

Crystalline powder. May cause temporary eye irritation. Repeated exposure may cause chronic eye irritation.

Health Warnings

Dust may irritate respiratory system or lungs.

Route Of Entry

Inhalation. Ingestion. Skin and/or eye contact.

Medical Considerations

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Disodium Tetraborate decahydrate	<8.5%
CAS No.: 1303-96-4	EC No.: 215-540-4
GHS Classification Repr. 1B - H360FD	

Composition Comments

Not classified as hazardous according to the criteria of Worksafe Australia

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

Eye Contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

No specific symptoms noted.

Eye Contact

May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

The product is non-combustible. If heated, irritating vapors may be formed. Oxides of: Sulfur.

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Special Fire Fighting Procedures

Avoid breathing fire vapors.

Protective Equipment For Fire-Fighters

Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin and eyes. Provide adequate ventilation. For personal protection, see section 8.

Environmental Precautions

Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

Spill Clean Up Methods

For waste disposal, see section 13. Wear necessary protective equipment. Small quantities may be flushed to drains with plenty of water. Prevent discharge of larger quantity to drain. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Wash contaminated area with water.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Provide good ventilation. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Read and follow manufacturer's recommendations.

Storage

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

Storage Class

Chemical storage.

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
Disodium Tetraborate decahydrate	ACGIH	1 mg/m ³	2 mg/m ³		6 mg/m ³	A4

ACGIH=American Conference of Governmental Industrial Hygienists.

A4: Not Classifiable as a Human Carcinogen.

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

Wear suitable respiratory protection.

Hand Protection

Use protective gloves.

Eye Protection

Use eye protection.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Powder, dust

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Color	White.
Odor	No characteristic odor.
Solubility	Soluble in water. 100%
pH-Value, Conc. Solution	10

10. STABILITY AND REACTIVITY

Reactivity

Generates toxic gas in contact with acid.

Stability

Avoid Contact with acids.

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

Avoid contact with acids. Avoid excessive heat for prolonged periods of time.

Materials To Avoid

Strong acids. Avoid contact with other photographic solutions and/or cleaning compounds.

Hazardous Decomposition Products

Fire or high temperatures create: Vapors/gases/fumes of: Oxides of: Sulfur.

11. TOXICOLOGICAL INFORMATION

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 that comprise the mixture.

Toxicological Information on Ingredients:

Disodium Tetraborate decahydrate (CAS: 1303-96-4)

Toxic Dose 1 - LD 50

2660 mg/kg (oral rat)

12. ECOLOGICAL INFORMATION

Toxicity

The product is not expected to be hazardous to the environment.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Used, diluted, 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 pre-treated 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

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, DOT).

Transport Labels

No transport warning sign required.

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Environmentally Hazardous Substance/Marine Pollutant

No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes

Not applicable.

15. REGULATORY INFORMATION

Regulatory Status (US)

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

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

State Regulations Comments

No information available.

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

Disodium Tetraborate decahydrate

Rhode Island "Right To Know" List

The following ingredients are listed.

Disodium Tetraborate decahydrate

Minnesota "Right To Know" List

The following ingredients are listed.

Disodium Tetraborate decahydrate

New Jersey "Right To Know" List

None of the ingredients are listed.

Pennsylvania "Right To Know" List

The following ingredients are listed.

Disodium Tetraborate decahydrate

International Inventories

Canada – DSL/NDSL

The following ingredients are listed.

Disodium Tetraborate decahydrate

Potassium Bromide

US - TSCA

The following ingredients are listed.

Disodium Tetraborate decahydrate

Potassium Bromide

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

16. OTHER INFORMATION

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General Information

HARMAN technology Ltd believe the information and recommendations contained herein are based on correct and factual data. However, no express or implied guarantee or warranty of any kind is made with respect to this information. Use this information only to supplement other information you have gathered and then make an independent determination about the completeness and suitability of all information to ensure the proper use and disposal of this product and the health and safety of employees and customers.

Information Sources

European Photographic Chemical Industry Code of Practice For Classification And Labelling Material Safety Data Sheet, Misc. manufacturers. Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984.

Issued By HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:
trevor.rhodes@harmantechnology.com

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