

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET Microphen Developer (Part B)

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#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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##### 1.1. Product identifier

**Product name** Microphen Developer (Part B)  
**Product No.** 1173875  
**Internal Id** 10120  
**Container size** 125g

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Photographic Developer

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** Distributors  
UK: HARMAN technology Ltd, Ilford Way,  
Mobberley, Cheshire, WA16 7JL, UK Tel: 01565  
650000, Fax: 01565 872734.  
(<http://www.harmanotechnology.com>)  
Australia: CR Kennedy & Co Pty Ltd, 663 Chapel  
Street, South Yarra, Victoria 3141, Australia. Tel:  
03 9823 1555, Fax: 03 9827 7216  
**Contact Person** UK: HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:  
[trevor.rhodes@harmanotechnology.com](mailto:trevor.rhodes@harmanotechnology.com) Australia: Contact Distributor (<http://www.crkennedy.com.au>) Tel  
+61 (0)3 9823 1555

##### 1.4. Emergency telephone number

Swiss Toxicological Information Centre (24 hours) Tel: +41 (0)1 251 5151, Fax: +41 (0)1 252 8833 E-mail: [stic@access.ch](mailto:stic@access.ch), Internet:  
[www.toxi.ch](http://www.toxi.ch)

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#### SECTION 2: HAZARDS IDENTIFICATION

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##### 2.1. Classification of the substance or mixture

**Classification (1999/45/EEC)** R31.

##### 2.2. Label elements

**Risk Phrases**  
R31 Contact with acids liberates toxic gas.  
**Safety Phrases**  
S2 Keep out of the reach of children.  
S22 Do not breathe dust.

##### 2.3. Other hazards

No information available.

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#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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##### 3.2. Mixtures

## Microphen Developer (Part B)

<b>Disodium Tetraborate decahydrate</b>	<b>&lt;8.5%</b>
<b>CAS-No.: 1303-96-4</b>	<b>EC No.: 215-540-4</b>
Classification (EC 1272/2008) Repr. 1B - H360FD	Classification (67/548/EEC) Repr. Cat. 2;R60,R61.
<b>Sodium Sulphite</b>	<b>70-90%</b>
<b>CAS-No.: 7757-83-7</b>	<b>EC No.: 231-821-4</b>
Classification (EC 1272/2008) EUH031	Classification (67/548/EEC) R31.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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### SECTION 4: FIRST AID MEASURES

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#### 4.1. 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.

#### 4.2. 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.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

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### SECTION 5: FIREFIGHTING MEASURES

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#### 5.1. Extinguishing media

##### **Extinguishing media**

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

#### 5.2. Special hazards arising from the substance or mixture

##### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

## Microphen Developer (Part B)

### Specific hazards

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

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours.

#### 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.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. 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.

### 6.3. Methods and material for containment and cleaning up

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.

### 6.4. Reference to other sections

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

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precautions for safe 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.

### 7.2. Conditions for safe storage, including any incompatibilities

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

#### Storage Class

Chemical storage.

### 7.3. Specific end use(s)

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

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Disodium Tetraborate decahydrate	WEL	1 mg/m <sup>3</sup>				

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective equipment



## Microphen Developer (Part B)

### 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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. Information on basic physical and chemical properties

Appearance	Powder, dust
Colour	White.
Odour	No characteristic odour.
Solubility	Soluble in water. 100%
pH-Value, Conc. Solution	10

### 9.2. Other information

Not applicable.

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1. Reactivity

Generates toxic gas in contact with acid.

### 10.2. Chemical stability

Avoid Contact with acids.

### 10.3. Possibility of hazardous reactions

#### Hazardous Polymerisation

Will not polymerise.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

#### Materials To Avoid

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

### 10.6. Hazardous decomposition products

Fire or high temperatures create: Vapours/gases/fumes of: Oxides of: Sulphur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1. Information on toxicological effects

#### 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.

#### Inhalation

Dust may irritate respiratory system or lungs.

## Microphen Developer (Part B)

### Ingestion

May cause discomfort if swallowed.

### Skin contact

Powder may irritate skin.

### 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.

#### Toxicological information on ingredients.

##### Sodium Sulphite (CAS: 7757-83-7)

##### Toxic Dose 1 - LD 50

2610 mg/kg (oral rat)

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

##### Toxic Dose 1 - LD 50

2660 mg/kg (oral rat)

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1. Toxicity

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

#### Ecological information on ingredients.

##### Sodium Sulphite (CAS: 7757-83-7)

##### LC 50, 96 Hrs, Fish mg/l

220 - 460

##### EC 50, 48 Hrs, Daphnia, mg/l

69

### 12.2. Persistence and degradability

#### Degradability

No data available.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

No data available on bioaccumulation.

### 12.4. Mobility in soil

#### Mobility:

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

Not known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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## Microphen Developer (Part B)

### General information

The disposal process for this product when it becomes waste, depends largely upon how much (volume) waste is generated, where the waste is generated (location) and by whom (whether in a professional or amateur or other capacity). Therefore only outline guidance can be provided. For detailed guidance and specialist advice on the disposal of this product when it becomes waste, please visit the COPPICE web site at <http://www.pic.uk.net/coppice/index.htm>. The information is relevant to both professional and amateur users.

### 13.1. Waste treatment 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.

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## SECTION 14: TRANSPORT INFORMATION

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**General** The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not applicable.

#### **Transport Labels**

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### **Environmentally Hazardous Substance/Marine Pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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## SECTION 15: REGULATORY INFORMATION

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply. Worksafe Australia NOHSC 2012: Labelling of workplace substances. Australian Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). Australian Approved Criteria for Classifying Hazardous Substances (NOHSC 1008). Australian List of Designated Hazardous Substances (NOHSC 10005). Australian National Code of Practice for the Preparation of Material safety Data Sheets (NOHSC 2011)

#### **Guidance Notes**

CHIP for everyone HSG(108).

#### **EU Legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## Microphen Developer (Part B)

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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### SECTION 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.

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**Revision Date** 21/10/2013

**Revision** 9

**Supersedes date** 15/03/2012

#### Risk Phrases In Full

R31 Contact with acids liberates toxic gas.

R61 May cause harm to the unborn child.

R60 May impair fertility.

#### Hazard Statements In Full

EUH031 Contact with acids liberates toxic gas.

H360FD May damage fertility or the unborn child.