

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET

#### Ifosol 3 Developer

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#### 1. IDENTIFICATION

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|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | Ifosol 3 Developer  |
| <b>Product No.</b>         | 1131778   |
| <b>Internal Id</b>         | 10255   |
| <b>Container Size</b>      | 500ml   |
| <b>Identified uses</b>     | Developer Solution  |
| <b>Supplier</b>            | Distributors<br>USA: WYNIT Inc, 5801 East Taft Road, North<br>Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469<br>9648) or 1 315 437 4167, Fax: 1 315 437 0432<br>Canada: Amplis Foto Inc, 22 Telson Road,<br>Markham, Ontario L3R 1E5, Tel: 905 477 4111,<br>Fax: 905 477 2502 |
| <b>Contact Person</b>      | Dr Trevor Rhodes, HARMAN technology Ltd, Tel: +44(0)1565 650000, email:<br>trevor.rhodes@ifordphoto.com   |
| <b>Emergency Telephone</b> | USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).  |

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#### 2. HAZARD(S) IDENTIFICATION

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|                   |   |
|-------------------|---|
| <b>Appearance</b> | Coloured liquid.                        |
| <b>Color</b>      | Light (or pale). Yellow. Orange. Brown. |
| <b>Odor</b>       | No characteristic odor.                 |

#### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

##### WHMIS Label



Materials Causing Other  
Toxic Effects.

##### Controlled Product Classification

This Product has been classified according to the hazard criteria of the Controlled Products Regulations and the MSDS contains all required information.

##### Inhalation

May cause irritation to the respiratory system.

##### Ingestion

May cause discomfort if swallowed.

##### Skin Contact

May cause sensitization by skin contact. May cause allergic contact eczema.

##### Eye Contact

May cause temporary eye irritation.

##### Health Warnings

Spray and vapor in the eyes may cause irritation and smarting. May cause allergy. May cause hypersensitivity.

##### Route Of Entry

Skin and/or eye contact. Ingestion.

##### Medical Considerations

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

# Ifosol 3 Developer

## Other Health Effects

Hydroquinone: Carcinogen Category 3. Mutagen Category 3. ACGIH A3 IARC 3 IARC Animal Carcinogen List. IARC Int. Agency for Cancer Research.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

|   |                          |
|---|--------------------------|
| <b>1-Phenyl-4-Methyl-4-Hydroxymethyl-3-Pyrazolidone</b>   | <b>&lt; 1</b>            |
| <b>CAS No.: 13047-13-7</b>  | <b>EC No.: 235-920-3</b> |
| GHS Classification<br>Acute Tox. 4 - H302; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411  |                          |
| <b>HYDROQUINONE</b>   | <b>&lt; 1</b>            |
| <b>CAS No.: 123-31-9</b>  | <b>EC No.: 204-617-8</b> |
| GHS Classification<br>Acute Tox. 4 - H302; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351; Aquatic Acute 1 - H400 |                          |
| <b>SODIUM CARBONATE</b>   | <b>1-5%</b>              |
| <b>CAS No.: 497-19-8</b>  | <b>EC No.: 207-838-8</b> |
| GHS Classification<br>Eye Irrit. 2 - H319   |                          |

#### Composition Comments

Hazardous according to the criteria of Worksafe Australia

### 4. FIRST-AID MEASURES

#### Description of first aid measures

##### **Inhalation**

Unlikely route of exposure as the product does not contain volatile substances. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

##### **Ingestion**

Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. DO NOT induce vomiting. Get medical attention immediately.

##### **Skin Contact**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately 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.

# Ifosol 3 Developer

## 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.

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## 5. FIRE-FIGHTING MEASURES

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### Extinguishing Media

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

### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

### Specific Hazards

The product is non-combustible. If heated, harmful vapors may be formed.

### 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.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Prevent discharge of larger quantity to drain.

### Reference to other sections

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

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## 7. HANDLING AND STORAGE

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### 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 above freezing. 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Protective Equipment



### Engineering Measures

Provide adequate ventilation. Must not be handled in confined space without sufficient ventilation.

### Respiratory Equipment

Respiratory protection not required.

# Ifosol 3 Developer

## Hand Protection

Use protective gloves.

## Eye Protection

Use eye protection.

## Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|  |   |
|--|---|
| <b>Appearance</b>                              | Coloured liquid.                        |
| <b>Color</b>                                   | Light (or pale). Yellow. Orange. Brown. |
| <b>Odor</b>                                    | No characteristic odor.                 |
| <b>Solubility</b>                              | 100% Soluble in water.                  |
| <b>Initial boiling point and boiling range</b> | >100 760 mm Hg                          |
| <b>Relative density</b>                        | 1.07 20                                 |
| <b>pH-Value, Conc. Solution</b>                | 9.8                                     |
| <b>Not applicable.</b>                         |   |

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## 10. STABILITY AND REACTIVITY

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### Reactivity

No specific reactivity hazards associated with this product.

### Stability

Stable under the prescribed storage conditions. No particular stability concerns.

### Hazardous Polymerisation

Will not polymerise.

### Conditions To Avoid

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

### Materials To Avoid

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

### Hazardous Decomposition Products

Fire or high temperatures create: Sulfurous gases (SO<sub>x</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 that comprise the mixture.

### Other Health Effects

Hydroquinone: Carcinogen Category 3. Mutagen Category 3. ACGIH A3 IARC 3 IARC Animal Carcinogen List. IARC Int. Agency for Cancer Research.

#### Toxicological Information on Ingredients:

##### **Toxic Dose 1 - LD 50**

4090 mg/kg (oral rat)

##### **Toxic Dose 1 - LD 50**

320 mg/kg (oral rat)

##### **Toxic Dose 2 - LD 50**

>900 mg/kg (skn-rat)

##### **Toxic Dose 1 - LD 50**

1000 mg/kg (oral rat)

##### **Toxic Dose 2 - LD 50**

>2000 mg/kg (skn-rat)

#### SODIUM CARBONATE (CAS: 497-19-8)

#### HYDROQUINONE (CAS: 123-31-9)

#### 1-Phenyl-4-Methyl-4-Hydroxymethyl-3-Pyrazolidone (CAS: 13047-13-7)

# Ifsol 3 Developer

Diethylenetriamine Pentaacetic Acid Na5 (CAS: 140-01-2)

**Toxic Dose 1 - LD 50**  
>4000 mg/kg (oral rat)

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## 12. ECOLOGICAL INFORMATION

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### Toxicity

The product contains a substance that is very toxic to aquatic organisms.

### 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

None known.

### Ecological Information on Ingredients:

#### SODIUM CARBONATE (CAS: 497-19-8)

**LC 50, 96 Hrs, Fish mg/l**  
320 (Bluegill)

#### HYDROQUINONE (CAS: 123-31-9)

**LC 50, 96 Hrs, Fish mg/l**  
0.10-0.18 (Fathead Minnow)  
**EC 50, 48 Hrs, Daphnia, mg/l**  
0.05  
**IC 50, 72 Hrs, Algae, mg/l**  
1.0

#### 1-Phenyl-4-Methyl-4-Hydroxymethyl-3-Pyrazolidone (CAS: 13047-13-7)

**LC 50, 96 Hrs, Fish mg/l**  
32 (Rainbow Trout)  
**EC 50, 48 Hrs, Daphnia, mg/l**  
1.7

#### Diethylenetriamine Pentaacetic Acid Na5 (CAS: 140-01-2)

**LC 50, 96 Hrs, Fish mg/l**  
>1000 (Iepomis macrochirus)  
**EC 50, 48 Hrs, Daphnia, mg/l**  
>500 (daphnia magna)

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## 13. DISPOSAL CONSIDERATIONS

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### Waste Management

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 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.

### 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.

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## 14. TRANSPORT INFORMATION

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### General

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

### Road Transport Notes

Not classified for road transport

## Ifosol 3 Developer

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>Rail Transport Notes</b> | Not classified for rail transport   |
| <b>Sea Transport Notes</b>  | Not classified for sea transport    |
| <b>Air Transport Notes</b>  | Not classified for air transport    |
| <b>Transport Labels</b>     | No transport warning sign required. |

### Environmentally Hazardous Substance/Marine Pollutant

No.

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

Not applicable.

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## 15. REGULATORY INFORMATION

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### Regulatory Status (US)

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

### US Federal Regulations

### US State Regulations

#### State Regulations Comments

No information available.

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## 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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