

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET

#### Hypam Fixer

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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   | Hypam Fixer           |
| Product No.    | 1758285               |
| Internal Id    | 10023                 |
| Container size | 500ml 1 Litre 5 Litre |

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

|                 |                             |
|-----------------|-----------------------------|
| Identified uses | Photographic Fixer Solution |
|-----------------|-----------------------------|

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

|                |                                                                                                                                                                                                                                                                                                                                                                       |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier       | Distributors<br>UK: HARMAN technology Ltd, Ilford Way,<br>Mobberley, Cheshire, WA16 7JL, UK Tel: 01565<br>650000, Fax: 01565 872734.<br>( <a href="http://www.harmantechnology.com">http://www.harmantechnology.com</a> )<br>Australia: CR Kennedy & Co Pty Ltd, 663 Chapel<br>Street, South Yarra, Victoria 3141, Australia. Tel:<br>03 9823 1555, Fax: 03 9827 7216 |
| Contact Person | UK: HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:<br><a href="mailto:trevor.rhodes@harmantechnology.com">trevor.rhodes@harmantechnology.com</a> Australia: Contact Distributor ( <a href="http://www.crkenedy.com.au">http://www.crkenedy.com.au</a> ) Tel<br>+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) | Not classified. |
|------------------------------|-----------------|

##### 2.2. Label elements

|                |                         |                                                                                                                                                              |
|----------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk Phrases   | NC                      | Not classified.                                                                                                                                              |
| Safety Phrases | S2<br>S25<br>S39<br>P13 | Keep out of the reach of children.<br>Avoid contact with eyes.<br>Wear eye/face protection.<br>Safety data sheet available for professional user on request. |

##### 2.3. Other hazards

May irritate eyes.

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

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## Hypam Fixer

### 3.2. Mixtures

|                                                                                     |                                                        |              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------------|
| <b>ACETIC ACID ...%</b>                                                             |                                                        | <b>1-5%</b>  |
| <b>CAS-No.: 64-19-7</b>                                                             | <b>EC No.: 200-580-7</b>                               |              |
| Classification (EC 1272/2008)<br>Flam. Liq. 3 - H226<br>Skin Corr. 1A - H314        | Classification (67/548/EEC)<br>R10<br>C;R35            |              |
| <b>Ammonium Thiosulphate</b>                                                        |                                                        | <b>36-50</b> |
| <b>CAS-No.: 7783-18-8</b>                                                           | <b>EC No.: 231-982-0</b>                               |              |
| Classification (EC 1272/2008)<br>Not classified.                                    | Classification (67/548/EEC)<br>Not classified.         |              |
| <b>Boric Acid</b>                                                                   |                                                        | <b>1-5%</b>  |
| <b>CAS-No.: 10043-35-3</b>                                                          | <b>EC No.: 233-139-2</b>                               |              |
| Classification (EC 1272/2008)<br>Repr. 1B - H360FD                                  | Classification (67/548/EEC)<br>Repr. Cat. 2;R60,R61.   |              |
| <b>SODIUM METABISULPHITE</b>                                                        |                                                        | <b>1-5%</b>  |
| <b>CAS-No.: 7681-57-4</b>                                                           | <b>EC No.: 231-673-0</b>                               |              |
| Classification (EC 1272/2008)<br>EUH031<br>Acute Tox. 4 - H302<br>Eye Dam. 1 - H318 | Classification (67/548/EEC)<br>Xn;R22<br>Xi;R41<br>R31 |              |

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

#### Composition Comments

Not classified as hazardous according to the criteria of Worksafe Australia

### SECTION 4: FIRST AID MEASURES

#### 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 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

# Hypam Fixer

## 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 extinguishing media appropriate for surrounding fire.

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

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

No unusual fire or explosion hazards noted.

#### **Specific hazards**

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

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

### **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 above freezing. Store under well-ventilated conditions at a temperature below 25°C.

#### **Storage Class**

Chemical storage.

## Hypam Fixer

### 7.3. Specific end use(s)

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

| Name                  | STD | TWA - 8 Hrs |                     | STEL - 15 Min |  | Notes |
|-----------------------|-----|-------------|---------------------|---------------|--|-------|
| SODIUM METABISULPHITE | WEL |             | 5 mg/m <sup>3</sup> |               |  |       |

WEL = Workplace Exposure Limit.

### 8.2. Exposure controls

#### Protective equipment



#### Engineering measures

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

#### Respiratory equipment

Respiratory protection not required.

#### Hand protection

Use protective gloves.

#### Eye protection

Use eye protection.

#### Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                                              |                              |
|----------------------------------------------|------------------------------|
| Appearance                                   | Liquid                       |
| Colour                                       | Yellow. Green.               |
| Odour                                        | Slightly pungent odour.      |
| Solubility                                   | Soluble in water. 100%       |
| Initial boiling point and boiling range (°C) | >100 760 mm Hg               |
| Melting point (°C)                           | <0                           |
| Relative density                             | 1.34 20                      |
| Vapour pressure                              | - Not Known                  |
| Evaporation rate                             | 1 H <sub>2</sub> O (water)=1 |
| pH-Value, Conc. Solution                     | 5.1                          |

### 9.2. Other information

Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

## Hypam Fixer

### **10.2. Chemical stability**

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

### **10.3. Possibility of hazardous reactions**

#### **Hazardous Polymerisation**

Will not polymerise.

### **10.4. Conditions to avoid**

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

### **10.5. Incompatible materials**

#### **Materials To Avoid**

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

### **10.6. Hazardous decomposition products**

When heated, toxic and corrosive vapours/gases may be formed. Irritating gases/vapours/fumes of: Ammonia or amines. Sulphur dioxide.

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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**

No specific health warnings noted.

#### **Ingestion**

No specific health warnings noted.

#### **Skin contact**

No specific health warnings noted.

#### **Eye contact**

May cause temporary eye irritation.

#### **Health Warnings**

No specific health warnings noted. Spray and vapour in the eyes may cause irritation and smarting.

#### **Route of entry**

Ingestion. Skin and/or eye contact.

#### **Toxicological information on ingredients.**

## Hypam Fixer

ACETIC ACID ...% (CAS: 64-19-7)

### Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

### Aspiration hazard:

### Health Warnings

Exposure; This chemical has adequate warning properties. Gas or vapour is harmful on prolonged exposure or in high concentrations. This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. Repeated exposure may cause chronic eye irritation. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight. Serious damage to the lining of nose, throat and lungs. Chronic inflammation of nose, throat and bronchial tubes. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Erosion of exposed front teeth. Keratosis (thickening of the horny layer of the skin).

### Route of entry

Inhalation. Ingestion. Skin and/or eye contact.

### Target Organs

Eyes Respiratory system, lungs Skin Teeth Mucous membranes

### Medical Symptoms

Extreme irritation of eyes and mucous membranes, including burning and tearing. Irritation, burning, lachrymation, blurred vision after liquid splash. Irritation of nose due to vapour or dust contact. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Delayed, often serious breathing problems. May cause suffocation. Severe skin irritation. Nausea, vomiting. Diarrhoea. Dizziness.

### Medical Considerations

Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Pre-existing eye problems.

### SODIUM METABISULPHITE (CAS: 7681-57-4)

### Toxic Dose 1 - LD 50

1540 mg/kg (oral rat)

### Ammonium Thiosulphate (CAS: 7783-18-8)

### Toxic Dose 1 - LD 50

2890 mg/kg (oral rat)

### Boric Acid (CAS: 10043-35-3)

### Toxic Dose 1 - LD 50

>3000 mg/kg (oral rat)

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## SECTION 12: ECOLOGICAL INFORMATION

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### Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

#### Ecological information on ingredients.

### ACETIC ACID ...% (CAS: 64-19-7)

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

>100

### SODIUM METABISULPHITE (CAS: 7681-57-4)

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

>150

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

89

#### IC 50, 72 Hrs, Algae, mg/l

48

### Boric Acid (CAS: 10043-35-3)

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

600

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

115-153

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## **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**

The product may contribute to an excessive enrichment of the aquatic environment with nutrients.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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### **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.

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## 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.

### 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** 5

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#### Risk Phrases In Full

|     |                                         |
|-----|-----------------------------------------|
| R35 | Causes severe burns.                    |
| R31 | Contact with acids liberates toxic gas. |
| R10 | Flammable.                              |
| R22 | Harmful if swallowed.                   |
| R61 | May cause harm to the unborn child.     |
| R60 | May impair fertility.                   |
| NC  | Not classified.                         |
| R41 | Risk of serious damage to eyes.         |

#### Hazard Statements In Full

|        |                                           |
|--------|-------------------------------------------|
| H318   | Causes serious eye damage.                |
| H314   | Causes severe skin burns and eye damage.  |
| EUH031 | Contact with acids liberates toxic gas.   |
| H226   | Flammable liquid and vapour.              |
| H302   | Harmful if swallowed.                     |
| H360FD | May damage fertility or the unborn child. |