

## SAFETY DATA SHEET HYPAM FIXER 1+4

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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 1+4  
**Internal Id** 10137

#### 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

**Contact Person** This SDS relates to the product after it has been prepared for use in accordance with our recommendations. Because HARMAN technology Ltd. does not supply the solution ready for use, we are not obliged to provide this SDS. However, we do so in order to help users to use the product safely and assess correctly the risks involved.  
HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com

#### 1.4. Emergency telephone number

See msds of appropriate concentrate for details.

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### SECTION 2: HAZARDS IDENTIFICATION

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

**Classification (EC 1272/2008)**

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

**Classification (1999/45/EEC)** Not classified.

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

#### 2.2. Label elements

**Label In Accordance With (EC) No. 1272/2008**

No pictogram required.

#### 2.3. Other hazards

No information available.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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#### 3.2. Mixtures

<b>Ammonium Thiosulphate</b>	<b>10 - 15 %</b>
<b>CAS-No.: 7783-18-8</b>	<b>EC No.: 231-982-0</b>
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

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SODIUM BISULPHITE ....%		< 1
CAS-No.: 7631-90-5	EC No.: 231-548-0	
Classification (EC 1272/2008) EUH031 Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22 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

#### **General information**

No recommendation given, but first aid may still be required in case of accidental exposure. If in doubt, get medical attention!

#### **Inhalation**

Unlikely route of exposure as the product does not contain volatile substances.

#### **Ingestion**

Rinse mouth thoroughly.

#### **Skin contact**

Rinse immediately with plenty of water.

#### **Eye contact**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

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

#### **Inhalation**

No specific symptoms noted.

#### **Ingestion**

No specific symptoms noted.

#### **Skin contact**

May cause skin irritation.

#### **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**

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.

### 5.3. Advice for firefighters

#### **Special Fire Fighting Procedures**

No specific fire fighting procedure given.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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Wear protective clothing as described in Section 8 of this safety data sheet.

## **6.2. Environmental precautions**

Avoid discharge into drains.

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

Flush with plenty of water to clean spillage area. Prevent discharge of larger quantity to drain.

## **6.4. Reference to other sections**

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**

Avoid spilling, skin and eye contact. Provide good ventilation.

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

Keep out of reach of children.

### **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
SODIUM BISULPHITE ....%	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.

#### **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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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

<b>Appearance</b>	Liquid Water-soluble.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Slight odour.
<b>Solubility</b>	Soluble in water.
<b>Initial boiling point and boiling range (°C)</b>	>100 760 mm Hg

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Melting point (°C)	<0
Relative density	1.07 20
Vapour pressure	- Not Known
Evaporation rate	1 H <sub>2</sub> O (water)=1
pH-Value, Conc. Solution	5.1
pH-Value, Diluted Solution	5.1 - 5.2

## **9.2. Other information**

Not available.

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## **SECTION 10: STABILITY AND REACTIVITY**

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### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions.

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

#### **Hazardous Polymerisation**

Will not polymerise.

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

Avoid contact with acids.

### **10.5. Incompatible materials**

#### **Materials To Avoid**

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

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

Irritating gases/vapours/fumes of: 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**

Irritating to eyes.

#### **Health Warnings**

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 1+4

Ammonium Thiosulphate (CAS: 7783-18-8)

Toxic Dose 1 - LD 50

2890 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.

### 12.2. Persistence and degradability

#### Degradability

There are no data on the degradability of this product.

### 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

None known.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 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. EU Waste Number: 090101

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## SECTION 14: TRANSPORT INFORMATION

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Road Transport Notes	Not classified for road transport
Rail Transport Notes	Not classified for rail transport
Sea Transport Notes	Not classified for sea transport
Air Transport Notes	Not classified for air transport

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class Not classified for transportation.

#### Transport Labels

No transport warning sign required.

### 14.4. Packing group

Not applicable.

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## 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

#### **Guidance Notes**

Workplace Exposure Limits EH40.

#### **EU Legislation**

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 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 Date** 15/10/2015

**Revision** 4

**Supersedes date** 17/09/2012

**Safety Data Sheet Status** Approved.

#### **Risk Phrases In Full**

R31 Contact with acids liberates toxic gas.

R22 Harmful if swallowed.

NC Not classified.

#### **Hazard Statements In Full**

EUH031 Contact with acids liberates toxic gas.

H302 Harmful if swallowed.