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HARMAN technology Ltd

SAFETY DATA SHEET HYPAM FIXER 1+4

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

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. Users should also have and refer to the SDS(s) for the concentrate(s) from which the working strength solution is prepared.

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	HYPAM FIXER 1+4	
Internal identification	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	1.3. Details of the supplier of the safety data sheet	
Supplier	HARMAN technology Ltd Ilford Way Mobberley Knutsford Cheshire WA16 7JL http://www.harmantechnology.com Tel: +44(0)1565 650000 Fax: +44(0)1565 872734	
Contact person	HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email: trevor.rhodes@harmantechnology.com	
1.4. Emergency telephone nu	mber	
Emergency telephone	See Safety Data Sheet of appropriate concentrate for details.	
SECTION 2: Hazards identific	cation	
2.1. Classification of the subs	tance or mixture	
Classification (EC 1272/2008)		
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
2.2. Label elements		
Hazard statements	NC Not Classified	
2.3. Other hazards		
No information available.		
SECTION 3: Composition/info	prmation on ingredients	

Ammonium Thiosulphate		10-15%
CAS number: 7783-18-8	EC number: 231-982-0	REACH registration number: 01-
CAS humber. 1163-16-6	EC humber. 231-962-0	2119537325-41-XXXX
Classification Not Classified	Classificatio	on (67/548/EEC or 1999/45/EC)
Boric Acid		<1%
CAS number: 10043-35-3	EC number: 233-139-2	REACH registration number: 01- 2119486683-25-XXXX
Substance of very high conce	ern (SVHC).	
Classification Repr. 1B - H360FD	Classificatio Repr. Cat. 2	on (67/548/EEC or 1999/45/EC) 2:R60.R61.
· · · · · · · · · · · · · · · · · · ·	s and Hazard Statements are Displayed in Se	
SECTION 4: First aid measure	· ·	
4.1. Description of first aid me	asures	
nhalation	Unlikely route of exposure as the product d	oes not contain volatile substances.
ngestion	Rinse mouth thoroughly with water.	
Skin contact	Rinse immediately with plenty of water.	
Eye contact	Remove any contact lenses and open eyeli minutes. Get medical attention if any discor	ds wide apart. Continue to rinse for at least 15 mfort continues.
4.2. Most important symptoms	and effects, both acute and delayed	
Inhalation	No specific symptoms known.	
Ingestion	No specific symptoms known.	
Skin contact	May cause slight irritation.	
Eye contact	May cause temporary eye irritation.	
4.3. Indication of any immedia	te medical attention and special treatment ne	eded
Notes for the doctor	No specific recommendations.	
SECTION 5: Firefighting meas	sures	
5.1. Extinguishing media		
Suitable extinguishing media	The product is not flammable. Use fire-extin	nguishing media suitable for the surrounding fire.
5.2. Special hazards arising fr	om the substance or mixture	
Specific hazards	No unusual fire or explosion hazards noted	
Hazardous combustion products	Thermal decomposition or combustion proc Irritating gases or vapours. Oxides of: Sulpl	lucts may include the following substances: hur. Carbon. Nitrogen. Sodium. Boron.

5.3. Advice for firefighters

Protective actions during No specific firefighting precautions known. firefighting

SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
Personal precautions	Avoid contact with skin and eyes.
6.2. Environmental precaution	15
Environmental precautions	Avoid discharge into drains.
6.3. Methods and material for	containment and cleaning up
Methods for cleaning up	Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
6.4. Reference to other section	ns
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
SECTION 7: Handling and sto	brage
7.1. Precautions for safe hand	dling
Usage precautions	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.
7.2. Conditions for safe storage	ge, including any incompatibilities
Storage precautions	Keep out of reach of children.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure Contro	ols/personal protection
8.1. Control parameters	
Ingredient comments	No substances with occupational exposure limits are present at levels above the threshold for disclosure.
	Ammonium Thiosulphate (CAS: 7783-18-8)
DNEL	General population - Inhalation; Long term systemic effects: 104 mg/m ³
PNEC	- Fresh water; 0.78 mg/l - Marine water; 0.08 mg/l
Boric Acid (CAS: 10043-35-3)	
DNEL	General population - Oral; Long term systemic effects: 0.98 mg/kg/day General population - Dermal; Long term systemic effects: 196 mg/kg/day Workers - Dermal; Long term systemic effects: 392 mg/kg/day General population - Inhalation; Long term systemic effects: 4.15 mg/m³ Workers - Inhalation; Long term systemic effects: 8.3 mg/m³
PNEC	- Soil; 5.4 mg/kg - STP; 10 mg/l - Fresh water; 2.02 mg/l - Marine water; 2.02 mg/l
8.2. Exposure controls	

Protective equipment



Appropriate engineering controls	Provide adequate ventilation. This product must not be handled in a confined space without adequate ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	Use protective gloves.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Respiratory protection	Respiratory protection not required.
SECTION 9: Physical and Chemical Properties	

9.1. Information on basic physical and chemical properties

a. 1. mormation on basic physical and chemical properties	
Appearance	Liquid. Soluble in water.
Colour	Colourless to pale yellow.
Odour	Slight.
рН	pH (diluted solution): ca 5.15 (made up to 1+4 as directed)
Melting point	<0°C
Initial boiling point and range	>100°C @ 760 mm Hg
Evaporation rate	1 H2O (water)=1
Vapour pressure	No information available.
Relative density	~ 1.07 @ 20°C
Solubility(ies)	Soluble in water.
9.2. Other information	
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Other information	Not available.
SECTION 10: Stability and rea	
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SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability	Activity The reactivity data for this product will be typical of those for the following class of materials: Ammonium salts. Stable at normal ambient temperatures and when used as recommended.
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SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions	The reactivity data for this product will be typical of those for the following class of materials: Ammonium salts. Stable at normal ambient temperatures and when used as recommended.

Materials to avoid	Avoid contact with acids and alkalis. Avoid contact with other photographic solutions and/or cleaning compounds.	
10.6. Hazardous decompositio	10.6. Hazardous decomposition products	
Hazardous decomposition products	Contact with alkalis may produce: Ammonia. Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Sodium. Boron.	
SECTION 11: Toxicological inf	formation	
11.1. Information on toxicologi	cal effects	
Toxicological effects	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.	
Reproductive toxicity		
Reproductive toxicity - fertility	The product contains a substance that is classified as: May damage fertility. May damage the unborn child.	
Reproductive toxicity - development	The product contains a substance that is classified as: May damage fertility. May damage the unborn child. The level of this substance is below the threshold for classification under the CLP Regulation, so the product is not considered hazardous in this respect.	
Inhalation	No specific health hazards known.	
Ingestion	No specific health hazards known.	
Skin contact	May cause irritation.	
Eye contact	May cause irritation.	
Route of entry	Skin and/or eye contact	
SECTION 12: Ecological Information		
12.1. Toxicity		
Toxicity	The product is not expected to be hazardous to the environment.	
12.2. Persistence and degrada	ability	
Persistence and degradability	There are no data on the degradability of this product.	
12.3. Bioaccumulative potentia	al	
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

Results of PBT and vPvB This product does not contain any substances classified as PBT or vPvB. assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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 handled by a licensed hazardous waste contractor. EU Waste Number: 090104

SECTION 14: Transport information

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

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 MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
	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 (as amended).
	Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list
	of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and
	Directive 91/689/EEC on hazardous waste with amendments.

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this mixture. See SUMI (Safe Use of Mixtures Information document) attached to Safety Data Sheet of appropriate concentrate.

SECTION 16: Other information

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.
Key literature references and sources for data	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
Revision date	17/08/2017
Revision	2
Supersedes date	15/10/2015
Hazard statements in full	H360FD May damage fertility. May damage the unborn child.