

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Hypam Rapid Fixer

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name Hypam Rapid Fixer
Product number 1177879
Internal identification 10023
Container size 500ml, 1 Liter, 5 Liter

Recommended use of the chemical and restrictions on use

Application Fixer Solution

Details of the supplier of the safety data sheet

Supplier

Distributor
USA: Robert Distributors, 220 East Saint Clair St, Indianapolis, IN 46204
Tel:877-281-6405

Contact Person

Contact Distributor: sales@robertsdistributors.com

Emergency telephone number

Emergency telephone USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Repr. 1B - H360FD
Environmental hazards Not Classified

Label elements

Pictogram



Signal word

Danger

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.

Hypam Rapid Fixer

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P280 Wear protective clothing, gloves, eye and face protection.
 P302+P352 If on skin: Wash with plenty of water.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 If exposed or concerned: Get medical advice/ attention.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with local regulations.

Contains

Boric Acid

Other hazards

No information available.

3. Composition/information on ingredients

Mixtures

Ammonium Thiosulphate	30-60%
CAS number: 7783-18-8	
Classification	
Not Classified	
SODIUM BISULPHITE%	1-5%
CAS number: 7631-90-5	
Classification	
Acute Tox. 4 - H302	
Boric Acid	1-5%
CAS number: 10043-35-3	
Classification	
Repr. 1B - H360FD	
Acetic acid	< 2%
CAS number: 64-19-7	
Classification	
Flam. Liq. 3 - H226	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

Hypam Rapid Fixer

Skin Contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms and effects, both acute and delayed

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Specific hazards The product is non-combustible. No unusual fire or explosion hazards noted.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Ammonia.

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

Methods and material for containment and cleaning up

Methods for cleaning up Wear protective clothing, gloves, eye and face protection.
Small Spillages: Flush away spillage with plenty of water.
Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Hypam Rapid Fixer

Usage precautions Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Read and follow manufacturer's recommendations.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container. Storage advice to ensure the product remains in a useable condition throughout its specified shelf life: Store at temperatures above 0°C. Store at temperatures not exceeding 30°C.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

SODIUM BISULPHITE%

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

A4

Boric Acid

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction

Short-term exposure limit (15-minute): ACGIH 6 mg/m³ inhalable fraction

A4

Acetic acid

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 25 mg/m³

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 25 mg/m³

Short-term exposure limit (15-minute): ACGIH 15 ppm 37 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

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

If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Liquid.

Color

Green-yellow.

Hypam Rapid Fixer

Odor	Slight pungent.
pH	pH (concentrated solution): 5.1
Melting point	<0°C
Initial boiling point and range	>100°C @ 760 mm Hg
Evaporation rate	1 H ₂ O (water)=1
Vapor pressure	- Not Known @ °C
Relative density	1.34 @ 20°C
Solubility(ies)	Soluble in water. 100%
Other information	Not available.

10. Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable under the prescribed storage conditions. No particular stability concerns.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid contact with acids and alkalis.
Materials to avoid	Strong acids. Strong alkalis. Avoid contact with other photographic solutions and/or cleaning compounds.
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapors. Ammonia or amines. Sulfur dioxide. Oxides of carbon. Oxides of nitrogen.

11. Toxicological information

Information on toxicological 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.
<u>Acute toxicity - oral</u>	
ATE oral (mg/kg)	12,930.25
Inhalation	No specific health hazards known.
Ingestion	No specific health hazards known.
Skin Contact	Irritating to skin.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	No specific health hazards known. Vapor or spray in the eyes may cause irritation and smarting.
Route of entry	Ingestion. Skin and/or eye contact

SODIUM BISULPHITE%

Hypam Rapid Fixer

Acute toxicity - oral

ATE oral (mg/kg) 500.0

12. Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

Toxicity Not considered toxic to fish.

Boric Acid

Acute toxicity - fish LC₅₀, 96 hours: 600 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 115-153 mg/l, Daphnia magna

Acetic acid

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Fish

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product is soluble in water.

Other adverse effects

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

13. Disposal considerations

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 be handled by a licensed hazardous waste contractor.

14. Transport information

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

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Hypam Rapid Fixer

Transport labels

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

DOT TIH Zone

Not applicable.

Transport in bulk according to
Annex II of MARPOL 73/78
and the IBC Code

Not applicable.

15. Regulatory information

US State Regulations

State Regulations Comments No information available.

Inventories

US - TSCA

SODIUM BISULPHITE%

Boric Acid

Acetic acid

Ammonium Thiosulphate

Water

Sodium Acetate

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

SHE.Team@harmantechnology.com

Revision date

8/22/2017

Revision

2

Hypam Rapid Fixer

Supersedes date 14/05/2015

SDS No. 20373

Hazard statements in full

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.