



SAFETY DATA SHEET
Fixed Grade Liquid Emulsion

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME Fixed Grade Liquid Emulsion
PRODUCT NO. 6008750
INTERNAL ID 10484
APPLICATION Photographic Silver Halide Emulsion
SUPPLIER HARMAN technology Ltd.
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 Mobberley,
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EMERGENCY TELEPHONE In emergency contact the supplier at the above address (0900 - 1700 UK Time weekdays)
CONTAINER SIZE 250 ml

2 HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
ETHANOL	200-578-6	64-17-5	< 1	F;R11
PHENOL	203-632-7	108-95-2	< 1	Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22
SILVER BROMIDE	232-076-8	7785-23-1	1-5%	-
Silver Chloride	232-033-3	7783-90-6	1-5%	-

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

This product is a dispersion of photosensitive silver halide particles in an aqueous gelatin binder. It is not classified as dangerous according to 1999/45/EC.

4 FIRST-AID MEASURES

INHALATION

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

INGESTION

Remove victim immediately from source of exposure. Rinse mouth thoroughly. DO NOT INDUCE VOMITING! Obtain medical attention if symptoms occur.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Fixed Grade Liquid Emulsion

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

This product is not flammable. Use extinguishing media appropriate for surrounding fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into drains.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Do not contaminate water sources or sewer. Spillage should be collected for recycling. Flush with plenty of water to clean spillage area.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Avoid contact with skin and eyes.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Store at temperatures below 10°C Store above freezing. Only open in darkroom.

STORAGE CLASS

Chemical storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m3			
PHENOL	WEL	2 ppm(Sk)				

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

Wash promptly with soap & water if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Solid or liquid (may vary). Jelly-like

COLOUR Yellow

Fixed Grade Liquid Emulsion

ODOUR	Odourless		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	>100	MELTING POINT (°C)	>30
RELATIVE DENSITY	1.3 20	VAPOUR PRESSURE	- Not Known
pH-VALUE, CONC. SOLUTION	5.5		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

HAZARDOUS POLYMERISATION

Will not polymerise.

MATERIALS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

No specific hazardous decomposition products noted.

11 TOXICOLOGICAL INFORMATION

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

Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.

INGESTION

Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SKIN CONTACT

Liquid may irritate skin.

EYE CONTACT

Irritation of eyes and mucous membranes.

HEALTH WARNINGS

May cause discomfort if swallowed.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

ROUTE OF ENTRY

Ingestion. Skin and/or eye contact.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

There are no data on the ecotoxicity of this product. The product is not expected to be hazardous to the environment.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Dispose of in accordance with local regulations

DISPOSAL METHODS

Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

GENERAL

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

No transport warning sign required.

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15 REGULATORY INFORMATION

RISK PHRASES

NC Not classified.

SAFETY PHRASES

NC Not classified.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 No 716

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.

INFORMATION SOURCES

Material Safety Data Sheet, Misc. manufacturers.

ISSUED BY

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REVISION DATE 17/02/2011

REV. NO./REPL. SDS 1

GENERATED

RISK PHRASES IN FULL

R34	Causes burns.
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R11	Highly flammable.
NC	Not classified.
R68	Possible risk of irreversible effects.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.