

ILFORD PHOTO

HARMAN technology Ltd

SAFETY DATA SHEET

Ifosol 3 Film Developer

1. IDENTIFICATION

Product Name	Ifosol 3 Film Developer
Product No.	1176108
Internal Id	10559
Container Size	500ml
Identified uses	Developer Solution
Supplier	Distributors USA: WYNIT Inc, 5801 East Taft Road, North Syracuse, NY 13212. Tel: 1 800 GO WYNIT (469 9648) or 1 315 437 4167, Fax: 1 315 437 0432 Canada: Amplis Foto Inc, 22 Telson Road, Markham, Ontario L3R 1E5, Tel: 905 477 4111, Fax: 905 477 2502
Contact Person	USA: ifordhelp@wynit.com; Canada: phil.nielsen@amplis.com
Emergency Telephone	USA/Canada: For medical emergency, call 1 800 842 9660 (Product Misuse).

2. HAZARD(S) IDENTIFICATION

Appearance	Coloured liquid.
Color	Light (or pale). Yellow. Orange. Brown.
Odor	No characteristic odor.
GHS Pictogram	



Signal Word	Warning	
Hazard Statements	H317 H351	May cause an allergic skin reaction. Suspected of causing cancer.
Precautionary Statements	P101 P280 P302+352 P405 P501	If medical advice is needed, have product container or label at hand. Wear protective gloves, eye and face protection. IF ON SKIN: Wash with plenty of soap and water. Store locked up. Dispose of contents/container in accordance with local regulations.
GHS Classification	Physical and Chemical Hazards Human health Environment	Not classified. Skin Sens. 1 - H317;Carc. 2 - H351 Not classified.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

WHMIS Label

Iflosol 3 Film Developer



Materials Causing Other
Toxic Effects.

Controlled Product Classification

D2

OSHA Regulatory Status

This Product is Hazardous under the OSHA Hazard Communication Standard.

Inhalation

May cause irritation to the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin Contact

May cause sensitization by skin contact. May cause allergic contact eczema.

Eye Contact

May cause temporary eye irritation.

Health Warnings

Spray and vapor in the eyes may cause irritation and smarting. May cause allergy. May cause hypersensitivity.

Route Of Entry

Skin and/or eye contact. Ingestion.

Medical Considerations

May aggravate existing: Skin disorders and allergies. Pre-existing eye problems.

Other Health Effects

Hydroquinone: ACGIH A3 IARC 3 IARC Animal Carcinogen List. IARC Int. Agency for Cancer Research. Carcinogen Category 2. Mutagen Category 2.

3. COMPOSITION/INFORMATION ON INGREDIENTS

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone	< 1
CAS No.: 13047-13-7	EC No.: 235-920-3
GHS Classification Acute Tox. 4 - H302; Skin Sens. 1 - H317; Aquatic Chronic 2 - H411	
HYDROQUINONE	< 1
CAS No.: 123-31-9	EC No.: 204-617-8
GHS Classification Acute Tox. 4 - H302; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Muta. 2 - H341; Carc. 2 - H351; Aquatic Acute 1 - H400	
SODIUM CARBONATE	1-5%
CAS No.: 497-19-8	EC No.: 207-838-8
GHS Classification Eye Irrit. 2 - H319	

4. FIRST-AID MEASURES

Ifosol 3 Film Developer

Description of first aid measures

Inhalation

Unlikely route of exposure as the product does not contain volatile substances. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. DO NOT induce vomiting. Get medical attention immediately.

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.

Most important symptoms and effects, both acute and delayed

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

No specific symptoms noted.

Eye Contact

May cause temporary eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes To The Physician

No specific first aid measures noted.

5. FIRE-FIGHTING MEASURES

Flammability Class

No Uniform Fire Code noted.

Extinguishing Media

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

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific Hazards

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

Special Fire Fighting Procedures

Avoid breathing fire vapors.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

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

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.

Spill Clean Up Methods

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.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

7. HANDLING AND STORAGE

Iffol 3 Film Developer

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.

Storage

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.

Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	STD	TWA (8-hrs)		STEL (15 min)		Notes
HYDROQUINONE	ACGIH		1 mg/m ³			A3, Sen
HYDROQUINONE	PEL		2 mg/m ³			
COMPONENT						IDLH
HYDROQUINONE						50 mg/m ³

ACGIH=American Conference of Governmental Industrial Hygienists.

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans.

SEN: Sensitizer.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Coloured liquid.
Color	Light (or pale). Yellow. Orange. Brown.
Odor	No characteristic odor.
Solubility	100% Soluble in water.
Initial boiling point and boiling range	>100 760 mm Hg
Relative density	1.07 20
pH-Value, Conc. Solution	9.8

10. STABILITY AND REACTIVITY

Reactivity

No specific reactivity hazards associated with this product.

Stability

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

Ifosol 3 Film Developer

Hazardous Polymerisation

Will not polymerise.

Conditions To Avoid

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

Materials To Avoid

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

Hazardous Decomposition Products

Fire or high temperatures create: Sulfurous gases (SO_x).

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.

Other Health Effects

Hydroquinone: ACGIH A3 IARC 3 IARC Animal Carcinogen List. IARC Int. Agency for Cancer Research. Carcinogen Category 2. Mutagen Category 2.

12. ECOLOGICAL INFORMATION

Toxicity

The product contains a substance that is very toxic to aquatic organisms.

Degradability

No data available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility:

The product is soluble in water.

Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

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 regulation on the transport of dangerous goods (IMDG, IATA, DOT).
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
Transport Labels	No transport warning sign required.
Environmentally Hazardous Substance/Marine Pollutant	No.

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

Not applicable.

Ifosol 3 Film Developer

15. REGULATORY INFORMATION

Regulatory Status (US)

TSCA: The ingredients of this product are on the TSCA Inventory.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The following ingredients are listed.

HYDROQUINONE; EPCRA 302 TPQ 10 000 lbs 500 lbs Tier II TPQ 500 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed.

HYDROQUINONE; 100 lbs (45.4 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are listed.

SARA 313 Emission Reporting

The following ingredients are listed.

HYDROQUINONE 0.84%

CAA Accidental Release Prevention

None of the ingredients are listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed.

HYDROQUINONE

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are listed.

Massachusetts "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Rhode Island "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Minnesota "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

New Jersey "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

Pennsylvania "Right To Know" List

The following ingredients are listed.

HYDROQUINONE

International Inventories

Canada – DSL/NDSL

The following ingredients are listed.

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

1-Phenyl-5-mercaptotetrazole

HYDROQUINONE

SODIUM CARBONATE

US - TSCA

The following ingredients are listed.

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone

1-Phenyl-5-mercaptotetrazole

Ifosol 3 Film Developer

HYDROQUINONE

SODIUM CARBONATE

US – TSCA 12(b) Export Notification

None of the ingredients are listed.

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

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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