Revision Date 14/05/2015

Revision 12

Supersedes date 10/09/2014



# HARMAN technology Ltd

# SAFETY DATA SHEET Ilfosol 3 Film Developer

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1. Product identifier

Product name Ilfosol 3 Film Developer

 Product No.
 1131778

 Internal Id
 10255

 Container size
 500ml

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Photographic Developer Solution

## 1.3. Details of the supplier of the safety data sheet

**Supplier** Distributors

UK: HARMAN technology Ltd, Ilford Way, Mobberley, Cheshire, WA16 7JL, UK Tel: 01565

650000, Fax: 01565 872734. (http://www.harmantechnology.com)

Australia: CR Kennedy & Co Pty Ltd, 663 Chapel Street, South Yarra, Victoria 3141, Australia. Tel:

03 9823 1555, Fax: 03 9827 7216

Contact Person UK: HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:

trevor.rhodes@harmantechnology.com Australia: Contact Distributor (http://www.crkennedy.com.au) Tel

+61 (0)3 9823 1555

# 1.4. Emergency telephone number

Australia: 1-800-557346

UK and elsewhere: +44(0) 207 858 1228

# **SECTION 2: HAZARDS IDENTIFICATION**

## 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.

**Precautionary Statements** 

P102 Keep out of reach of children.

## Supplemental label information

EUH208 Contains

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone, HYDROQUINONE. May

produce an allergic reaction.

EUH210 Safety data sheet available on request.

# 2.3. Other hazards

No information available.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.2. Mixtures

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone				
CAS-No.: 13047-13-7	EC No.: 235-920-3			
Classification (EC 1272/2008)		Classification (67/548/EEC)		
Acute Tox. 4 - H302		Xn;R22.		
Skin Sens. 1 - H317		N;R51/53.		
Aquatic Chronic 2 - H411		R43.		

HYDROQUINONE			<1
CAS-No.: 123-31-9	EC No.: 204-617-8		
Classification (EC 1272/2008)		Classification (67/548/EEC)	
Acute Tox. 4 - H302		Carc. Cat. 3;R40	
Eye Dam. 1 - H318		Muta. Cat. 3;R68	
Skin Sens. 1 - H317		Xn;R22	
Muta. 2 - H341		R43	
Carc. 2 - H351		Xi;R41	
Aquatic Acute 1 - H400		N;R50	

		1-5%
EC No.: 207-838-8		
	Classification (67/548/EEC) Xi:R36	
	EC No.: 207-838-8	Classification (67/548/EEC)

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

#### **Composition Comments**

Hazardous according to the criteria of Worksafe Australia

#### **SECTION 4: FIRST AID MEASURES**

# 4.1. Description of first aid measures

#### Inhalatior

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.

#### 4.2. 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.

#### Eve contact

May cause temporary eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

## **SECTION 5: FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

#### Extinguishing media

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

## 5.2. Special hazards arising from the substance or mixture

#### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

#### Specific hazards

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

#### 5.3. Advice for firefighters

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

Avoid breathing fire vapours.

#### 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.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

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

#### 6.2. 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.

# 6.3. Methods and material for containment and cleaning up

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.

#### 6.4. Reference to other sections

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

#### **SECTION 7: HANDLING AND STORAGE**

# 7.1. Precautions for safe 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.

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

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.

## 7.3. Specific end use(s)

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

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HYDROQUINONE	WEL		0,5 mg/m3			

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.

#### 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.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** Coloured liquid.

Colour Light (or pale). Yellow. Orange. Brown.

No characteristic odour. Odour Solubility 100% Soluble in water. Initial boiling point and boiling range >100 760 mm Hg

(°C)

Relative density 1.07 20 pH-Value, Conc. Solution 9.8

#### 9.2. Other information

Not applicable.

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

#### 10.1. Reactivity

No specific reactivity hazards associated with this product.

#### 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

## **Hazardous Polymerisation**

Will not polymerise.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

#### Materials To Avoid

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

#### 10.6. Hazardous decomposition products

Fire or high temperatures create: Sulphurous gases (SOx).

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

# 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.

#### Other Health Effects

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

#### Inhalation

May cause irritation to the respiratory system.

#### Ingestion

May cause discomfort if swallowed.

#### Skin contact

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

#### Eye contact

May cause temporary eye irritation.

#### **Health Warnings**

Spray and vapour 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.

#### Toxicological information on ingredients.

SODIUM CARBONATE (CAS: 497-19-8)

#### Toxic Dose 1 - LD 50

4090 mg/kg (oral rat)

**HYDROQUINONE (CAS: 123-31-9)** 

Toxic Dose 1 - LD 50

320 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>900 mg/kg (skn-rat)

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone (CAS: 13047-13-7)

Toxic Dose 1 - LD 50

1000 mg/kg (oral rat)

Toxic Dose 2 - LD 50

>2000 mg/kg (skn-rat)

#### **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

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

Ecological information on ingredients.

SODIUM CARBONATE (CAS: 497-19-8)

LC 50, 96 Hrs, Fish mg/l

320 (Bluegill)

**HYDROQUINONE (CAS: 123-31-9)** 

LC 50, 96 Hrs, Fish mg/l

0.10-0.18 (Fathead Minnow)

EC 50, 48 Hrs, Daphnia, mg/l

0.05

IC 50, 72 Hrs, Algae, mg/l

1.0

1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone (CAS: 13047-13-7)

LC 50, 96 Hrs, Fish mg/l

32 (Rainbow Trout)

EC 50, 48 Hrs, Daphnia, mg/l

17

# 12.2. Persistence and degradability

#### Degradability

No data available.

## 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.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 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 handled by a licensed hazardous waste contractor.

#### **SECTION 14: TRANSPORT INFORMATION**

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA,

ADR/RID).

Road Transport NotesNot classified for road transportRail Transport NotesNot classified for rail transportSea Transport NotesNot classified for sea transportAir Transport NotesNot classified for air transport

#### 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

Not applicable.

**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 MARPOL73/78 and the IBC Code

Not applicable.

#### **SECTION 15: REGULATORY INFORMATION**

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

#### **Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply. Worksafe Australia NOHSC 2012: Labelling of workplace substances. Australian Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). Australian Approved Criteria for Classifying Hazardous Substances (NOHSC 1008). Australian List of Designated Hazardous Substances (NOHSC 10005). Australian National Code of Practice for the Preparation of Material safety Data Sheets (NOHSC 2011)

## **Guidance Notes**

CHIP for everyone HSG(108).

#### **EU Legislation**

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. EU COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010.

# 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### **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.

#### 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.

Issued By HS&E Advisor Dr Trevor Rhodes Tel: +44(0)1565 650000, email:

trevor.rhodes@harmantechnology.com

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Risk Phrases In Full

R22 Harmful if swallowed.
R36 Irritating to eyes.

R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.

NC Not classified.

R68 Possible risk of irreversible effects.
R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50 Very toxic to aquatic organisms.

Hazard Statements In Full

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer. H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.