

# ILFORD PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET 2150XL DEVELOPER 1+3.67

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** 2150XL DEVELOPER 1+3.67  
**Internal identification** 10135

##### 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

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](mailto:trevor.rhodes@harmantechnology.com)

##### 1.4. Emergency telephone number

**Emergency telephone** See Safety Data Sheet of appropriate concentrate for details.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

##### 2.2. Label elements

**Hazard statements** EUH208 Contains HYDROQUINONE, 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone.  
May produce an allergic reaction.

##### 2.3. Other hazards

No information available.

## 2150XL DEVELOPER 1+3.67

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>Potassium Carbonate</b>			<b>1-5%</b>
CAS number: 584-08-7	EC number: 209-529-3	REACH registration number: 01-2119532646-36-0000	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi;R36/37/38.
Eye Irrit. 2 - H319	
STOT SE 3 - H335	

<b>HYDROQUINONE</b>			<b>&lt;1%</b>
CAS number: 123-31-9	EC number: 204-617-8	REACH registration number: 01-2119524016-51-XXXX	
M factor (Acute) = 10			

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Carc. Cat. 3;R40 Muta. Cat. 3;R68 Xn;R22 R43 Xi;R41
Eye Dam. 1 - H318	N;R50
Skin Sens. 1 - H317	
Muta. 2 - H341	
Carc. 2 - H351	
Aquatic Acute 1 - H400	

<b>pentasodium (carboxylatomethyl)iminobis(ethylenitrilo)tetraacetate</b>			<b>&lt;1%</b>
CAS number: 140-01-2	EC number: 205-391-3	REACH registration number: 01-2119474445-33-XXXX	

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H332	Xn;R20. Repr. Cat. 3;R63.
Repr. 2 - H361fd	
STOT RE 2 - H373	

<b>1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone</b>			<b>&lt;1%</b>
CAS number: 13047-13-7	EC number: 235-920-3		

<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Xn;R22. N;R51/53. R43.
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances.
<b>Ingestion</b>	Rinse mouth thoroughly with water.

## 2150XL DEVELOPER 1+3.67

<b>Skin contact</b>	Rinse immediately with plenty of water.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### **4.2. Most important symptoms and effects, both acute and delayed**

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	No specific recommendations.
-----------------------------	------------------------------

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

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

<b>Specific hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
---	---

## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Avoid contact with skin and eyes.
-----------------------------	-----------------------------------

### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid discharge into drains.
----------------------------------	------------------------------

### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
--------------------------------	---

### **6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
------------------------------------	---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.
--------------------------	---

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

<b>Storage precautions</b>	Keep out of reach of children.
----------------------------	--------------------------------

### **7.3. Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
----------------------------	---

## 2150XL DEVELOPER 1+3.67

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### HYDROQUINONE

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

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

<b>DNEL</b>	Industry/Professional - Dermal; Long term systemic effects: 128 mg/kg/day Industry/Professional - Inhalation; Long term systemic effects: 7 mg/m <sup>3</sup> Industry/Professional - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 64 mg/kg/day General population - Inhalation; Long term systemic effects: 1.74 mg/m <sup>3</sup> General population - Inhalation; Long term local effects: 0.5 mg/m <sup>3</sup>
<b>PNEC</b>	- Water; 0.000114 mg/l - Marine water; 0.0000114 mg/l - Sediment (Freshwater); 0.00098 mg/kg - Sediment (Marinewater); 0.000097 mg/kg - Intermittent release; 0.00134 mg/l - Soil; 0.000129 mg/kg - STP; 0.71 mg/l

##### pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate (CAS: 140-01-2)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 1.5 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 6.4 mg/l - Marine water; 0.64 mg/l - Water, Intermittent release; 3.1 mg/l - STP; 51 mg/l - Sediment (Freshwater); 25.1 mg/kg - Sediment (Marinewater); 2.51 mg/kg - Soil; 1.26 mg/kg

#### 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

## 2150XL DEVELOPER 1+3.67

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	No characteristic odour.
pH	pH ca. 10.4
Melting point	<0°C
Initial boiling point and range	>100°C @ 760 mm Hg
Evaporation rate	1 H <sub>2</sub> O (water)=1
Vapour pressure	No information available.
Relative density	~ 1.05 @ 20°C
Solubility(ies)	Soluble in water.

### 9.2. Other information

Other information	Not available.
-------------------	----------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
------------	---

### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
-----------	---

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
------------------------------------	--

### 10.4. Conditions to avoid

Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
---------------------	---

### 10.5. Incompatible materials

Materials to avoid	Avoid contact with acids. Avoid contact with other photographic solutions and/or cleaning compounds.
--------------------	--

### 10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.
----------------------------------	--

## SECTION 11: Toxicological information

### 11.1. 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.
-----------------------	--

### Germ cell mutagenicity

Genotoxicity - in vivo	The product contains a substance that is classified as: Suspected of causing genetic defects.
------------------------	---

### Carcinogenicity

Carcinogenicity	The product contains a substance that is classified as: Suspected of causing cancer.
-----------------	--

### Reproductive toxicity

## 2150XL DEVELOPER 1+3.67

<b>Reproductive toxicity - fertility</b>	The product contains a substance that is classified as: Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>Reproductive toxicity - development</b>	The product contains a substance that is classified as: Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>Specific target organ toxicity - repeated exposure</b>	
<b>STOT - repeated exposure</b>	The product contains a substance that is classified as: May cause damage to organs through prolonged or repeated exposure.
<b>Inhalation</b>	No specific health hazards known.
<b>Ingestion</b>	No specific health hazards known.
<b>Skin contact</b>	The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Acute and chronic health hazards</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Route of entry</b>	Skin and/or eye contact

### HYDROQUINONE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 375.0

Species Rat

ATE oral (mg/kg) 375.0

#### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** The product contains a substance that is very toxic to aquatic organisms. At the levels that are present, the product is not considered to be hazardous to the environment.

### HYDROQUINONE

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.10-0.18 (Fathead Minnow) mg/l, Algae

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.05 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 1.0 mg/l, Fish

### 12.2. Persistence and degradability

## 2150XL DEVELOPER 1+3.67

**Persistence and degradability** There are no data on the degradability of this product.

### 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

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

## HYDROQUINONE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 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 be handled by a licensed hazardous waste contractor. EU Waste Number: 090101

## **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

## 2150XL DEVELOPER 1+3.67

### 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

18/08/2017

##### Revision

2

##### Supersedes date

17/09/2015



## 2150XL DEVELOPER 1+3.67

### Hazard statements in full

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains HYDROQUINONE, 1-Phenyl-4-methyl-4-hydroxymethyl-3-pyrazolidone.  
May produce an allergic reaction.