# **ILFORD** PHOTO

## HARMAN technology Ltd

### SAFETY DATA SHEET PQ UNIVERSAL DEVELOPER 1+9

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	PQ UNIVERSAL DEVELOPER 1+9
Internal identification	10148
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
1.4. Emergency telephone nu	Imber
Emergency telephone	See Safety Data Sheet of appropriate concentrate for details.
SECTION 2: Hazards identification	
2.1. Classification of the subs	tance 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. May produce an allergic reaction.
2.3. Other hazards	
No information available.	
SECTION 3: Composition/information on ingredients	

3.2. Mixtures

3.2. Mixtures			
Potassium Carbonate			<1%
CAS number: 584-08-7	EC number: 209-529-3	REACH registration number: 01- 2119532646-36-0000	
Classification	Cla	assification (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315	Xi;I	R36/37/38.	
Eye Irrit. 2 - H319			
STOT SE 3 - H335			
pentasodium		<	<0.5%
(carboxylatomethyl)iminobi	s(ethylenenitrilo)tetraacetate		
CAS number: 140-01-2	EC number: 205-391-3	REACH registration number: 01- 2119474445-33-XXXX	
Classification	Cla	assification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H332	Xn	;R20. Repr. Cat. 3;R63.	
Repr. 2 - H361fd			
STOT RE 2 - H373			
HYDROQUINONE		<	<0.5%
CAS number: 123-31-9	EC number: 204-617-8	REACH registration number: 01- 2119524016-51-XXXX	
M factor (Acute) = 10			
Classification	Cla	assification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Са	rc. Cat. 3;R40 Muta. Cat. 3;R68 Xn;R22 R43 Xi;R41	
Eye Dam. 1 - H318	N;F	R50	
Skin Sens. 1 - H317			
Muta. 2 - H341			
Carc. 2 - H351			
Aquatic Acute 1 - H400			
The Full Text for all R-Phras SECTION 4: First aid measu	ses and Hazard Statements are Display	yed in Section 16.	
4.1. Description of first aid n			
Inhalation		product does not contain volatile substances.	
Ingestion	Rinse mouth thoroughly with water		
Skin contact	Rinse immediately with plenty of w		
Eye contact		pen eyelids wide apart. Continue to rinse for at least 1	5
4.2. Most important symptor	ms and effects, both acute and delayed	1	
Inhalation	No specific symptoms known.		

Ingestion No specific symptoms known.

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact	May cause temporary eye irritation.	
-	ate medical attention and special treatment needed	
Notes for the doctor	No specific recommendations.	
SECTION 5: Firefighting mea	sures	
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 fr	rom the substance or mixture	
Specific hazards	No unusual fire or explosion hazards noted.	
Hazardous combustion products	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		
Protective actions during firefighting	No specific firefighting precautions known.	
SECTION 6: Accidental release	se measures	
6.1. Personal precautions, pro	ptective equipment and emergency procedures	
Personal precautions	Avoid contact with skin and eyes.	
6.2. Environmental precaution		
Environmental precautions	Avoid discharge into drains.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.	
6.4. Reference to other section	uns de la companya de	
Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.	
SECTION 7: Handling and sto	prage	
SECTION 7: Handling and sto 7.1. Precautions for safe hand		
7.1. Precautions for safe hand Usage precautions	dling	
7.1. Precautions for safe hand Usage precautions	dling Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.	
<ul> <li>7.1. Precautions for safe hand</li> <li>Usage precautions</li> <li>7.2. Conditions for safe storage</li> </ul>	dling Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. ge, including any incompatibilities	
<ul> <li>7.1. Precautions for safe hand</li> <li>Usage precautions</li> <li>7.2. Conditions for safe storage</li> <li>Storage precautions</li> </ul>	dling Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. ge, including any incompatibilities	
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<ul> <li>7.1. Precautions for safe hand</li> <li>Usage precautions</li> <li>7.2. Conditions for safe storage</li> <li>Storage precautions</li> <li>7.3. Specific end use(s)</li> <li>Specific end use(s)</li> </ul>	dling Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. ge, including any incompatibilities Keep out of reach of children. The identified uses for this product are detailed in Section 1.2.	

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

DNEL	Workers - Inhalation; Long term systemic effects: 1.5 mg/m <sup>3</sup>
PNEC	<ul> <li>Fresh water; 6.4 mg/l</li> <li>Marine water; 0.64 mg/l</li> <li>Water, Intermittent release; 3.1 mg/l</li> <li>STP; 51 mg/l</li> <li>Sediment (Freshwater); 25.1 mg/kg</li> <li>Sediment (Marinewater); 2.51 mg/kg</li> <li>Soil; 1.26 mg/kg</li> </ul>
	HYDROQUINONE (CAS: 123-31-9)
DNEL	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>
PNEC	- 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

#### 8.2. Exposure controls

Protective equipment





	Respiratory protection not required.
Respiratory protection	Respiratory protection not required.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Hand protection	Use protective gloves.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Appropriate engineering controls	Provide adequate ventilation. This product must not be handled in a confined space without adequate ventilation.

#### **SECTION 9: Physical and Chemical Properties**

9.1. Information on	basic physical and	chemical properties

Appearance	Liquid. Soluble in water.
Colour	Colourless.
Odour	No characteristic odour.
рН	pH (diluted solution): 10.48 - 10.58 (diluted as directed)
Melting point	<0°C
Initial boiling point and range	>100°C @ 760 mm Hg

Evaporation rate1 H20 (water)=1Vapour pressureNo information available.Relative density~ 1.02 @ 20°CSolubility(les)Soluble in water.92. Other informationNot available.Other informationNot available.SECTION 10: Stability and reare no known reactivity hazards associated with this product.10.1. ReactivityThere are no known reactivity hazards associated with this product.10.2. Chemical stabilityStable at normal ambient temperatures and when used as recommended.10.3. Possibility of hazardousUnder normal conditions of storage and use, no hazardous reactions will occur.10.4. Conditions to avoidThere are no known conditions that are likely to result in a hazardous situation.10.5. Incompatible materialsAvoid contact with acids. Avoid contact with other photographic solutions and/or cleaning compounds.10.6. Hazardous decomposition or combustion products may include the following substances: Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.SECTION 11: Toxlcological ir/TermationThermatian to avoid site frects
Relative density       ~ 1.02 @ 20°C         Solubility(ies)       Soluble in water.         9.2. Other information       Not available.         Other information       Not available.         SECTION 10: Stability and reactivity       Image: Comparison of the product of the p
Solubility(ies)       Soluble in water.         9.2. Other information       Not available.         Other information       Not available.         SECTION 10: Stability and reactivity       Stability and reactivity         10.1. Reactivity       There are no known reactivity hazards associated with this product.         10.2. Chemical stability       There are no known reactivity hazards associated with this product.         10.2. Chemical stability       Stable at normal ambient temperatures and when used as recommended.         10.3. Possibility of hazardous       Under normal conditions of storage and use, no hazardous reactions will occur.         reactions       Under normal conditions of storage and use, no hazardous reactions will occur.         10.4. Conditions to avoid       There are no known conditions that are likely to result in a hazardous situation.         10.5. Incompatible materials       Avoid contact with acids. Avoid contact with other photographic solutions and/or cleaning compounds.         10.6. Hazardous decomposition       Thermal decomposition or combustion products may include the following substances: products         Hazardous decomposition       Thermal decomposition or combustion products may include the following substances: products         SECTION 11: Toxicological intruston       Substances or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.
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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       Stable at normal ambient temperatures and when used as recommended.         10.3. Possibility of hazardous reactions       Under normal conditions of storage and use, no hazardous reactions will occur.         Possibility of hazardous       Under normal conditions of storage and use, no hazardous reactions will occur.         10.4. Conditions to avoid       There are no known conditions that are likely to result in a hazardous situation.         10.5. Incompatible materials       Avoid contact with acids. Avoid contact with other photographic solutions and/or cleaning compounds.         10.6. 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       Thermation
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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
Hazardous decomposition       Thermal decomposition or combustion products may include the following substances:         products       Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.         SECTION 11: Toxicological information
products         Irritating gases or vapours. Oxides of: Sulphur. Carbon. Nitrogen. Potassium.           SECTION 11: Toxicological information
11.1. Information on toxicological effects
Toxicological effectsThis 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 mutagenicityGenotoxicity - in vivoThe product contains a substance that is classified as: Suspected of causing genetic defects.
Carcinogenicity       The product contains a substance that is classified as: Suspected of causing cancer.
Reproductive toxicity
<b>Reproductive toxicity - fertility</b> The product contains a substance that is classified as: Suspected of damaging fertility. Suspected of damaging the unborn child.
Reproductive toxicity - developmentThe product contains a substance that is classified as: Suspected of damaging fertility.Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure

Inhalation	No specific health hazards known.
Ingestion	No specific health hazards known.
Skin contact	The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Route of entry	Skin and/or eye contact

#### **HYDROQUINONE**

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ 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)50	$0.01 < L(E)C50 \le 0.1$
M factor (Acute)	10
Acute toxicity - fish	LC₅₀, 96 hours: 0.10-0.18 (Fathead Minnow) mg/l, Algae
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.05 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC₅₀, 72 hours: 1.0 mg/l, Fish

#### 12.2. Persistence and degradability

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 This product does not contain any substances classified as PBT or vPvB. assessment

#### HYDROQUINONE

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

#### 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 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

## 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	<ul> <li>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18</li> <li>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of</li> <li>Chemicals (REACH) (as amended).</li> <li>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16</li> <li>December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</li> <li>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.</li> </ul>
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	01/10/2015
Hazard statements in full	<ul> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H341 Suspected of causing genetic defects.</li> <li>H351 Suspected of causing cancer.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure.</li> <li>H400 Very toxic to aquatic life.</li> <li>EUH208 Contains HYDROQUINONE. May produce an allergic reaction.</li> </ul>