# **Multigrade Paper Developer**

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

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

1.1 Product identifier

Product Name Multigrade Paper Developer

(Contains: 1,4-dihydroxybenzenehydroquinonequinol)

Product code 1918555, 1155073, 1757855

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

Identified Use(s) Photographic Developer Solution

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification HARMAN Technology Ltd

Address of Manufacturer IIford Way

Mobberley Knutsford Cheshire East

Postal code WA16 7JL

Telephone: +44(0)1565 650000 Fax +44(0)1565 872734

E-mail web-admin@harmantechnology.com

Office hours

Supplier

Company Identification HARMAN Technology Ltd

Address of Supplier Ilford Way Mobberley

Knutsford Cheshire East

Postal code WA16 7JL
Telephone: +44(0)1565 650000

Fax +44(0)1565 650000 +44(0)1565 872734

E-mail web-admin@harmantechnology.com

Office hours

1.4 Emergency telephone number

National response centre

Address NHS Direct Emergency Phone No. +44 111

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and Skin Sens. 1B :May cause an allergic skin reaction.

UK SI 2020/1567 Eye Irrit. 2 :Causes serious eye irritation.

Muta. 2 :Suspected of causing genetic defects.

Carc. 2: Suspected of causing cancer.

Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name Multigrade Paper Developer

(Contains: 1,4-dihydroxybenzenehydroquinonequinol)

Hazard Pictogram(s)





Signal Word(s) Warning

Hazard Statement(s) H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H412: Harmful to aquatic life with long lasting effects.

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Precautionary Statement(s) P101: If medical advice is needed, have product container or label at hand.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

This product contains: 95-14-7 (Endocrine disrupting properties)

2.4 Additional Information

For full text of H/P Statements see section 16.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	I .	Hazard Statement(s)	Hazard Pictogram(s)
Water	7732-18-5	231-791-2	73.5138	Not classified	None
Sodium sulphite	7757-83-7	231-821-4	10-30%	Not classified	None
Potassium carbonate	584-08-7	209-529-3	5-10%	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	GHS07
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	205-391-3	<3%	Acute Tox. 4 H332 Repr. 2 H361 STOT RE 2 H373	GHS08 GHS07
1,4-dihydroxybenzenehydroquinonequinol	123-31-9	204-617-8	<2.5%	Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS08 GHS07 GHS09
sodium hydroxidecaustic soda	1310-73-2	215-185-5	<1%	Met. Corr. 1 H290 Skin Corr. 1A H314 Eye Dam. 1 H318	GHS05
4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	13047-13-7	235-920-3	<1%	Acute Tox. 4 H302	GHS07

For full text of H/P Statements see section 16.

# SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation IF exposed or concerned: Get medical advice/attention.

Skin Contact

Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see

Medical Advice on this label). IF exposed or concerned:

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. IF exposed or concerned: Get medical

advice/attention. If eye irritation persists:

Ingestion IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause irritation. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

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Specific treatment (see Medical Advice on this label). IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand. Treat symptomatically.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus. Dike fire control water for later disposal.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure full personal protection (including respiratory

protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and

watercourses

6.4 Reference to other sections

See Also Section 8, 13.

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

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands and exposed skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up

Storage temperature **Ambient** 

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)

Photographic Developer Solution

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits										
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note				
Hydroquinone	123-31-9		0.5							
Sodium hydroxide	1310-73-2				2					

Region United Kinadom

UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing

facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

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Eye Protection Wear eye protection with side protection (EN ISO 16321-1).



Skin protection Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough

time of the glove material: refer to the information provided by the gloves' producer.

(i)

Respiratory protection 

Normally no personal respiratory protection is necessary.



Thermal hazards None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Liquid.

Colour : Not known.

Odour Not known. Odour threshold Not known. рΗ Not known. Melting point/freezing point Not known. Initial boiling point and boiling range Not known. Flash Point Not known. Evaporation rate Not known Flammability (solid, gas) Not known. Upper/lower flammability or explosive Not known.

limits

Vapour pressure
Vapour density
Not known.
Density (g/ml)
Relative density
Not known.
Not known.

Solubility(ies) Solubility (Water) : Not known.

Solubility (Other): Not known.

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition Temperature (°C)
Viscosity
Not known.
Explosive properties
Not known.
Oxidising properties
Not known.
Not known.

9.2 Other information

None.

# SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Calculation method : Not classified.

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 18554.25

Acute toxicity - Skin Contact Calculation method : Not classified. Acute toxicity - Inhalation Calculation method : Not classified.

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 387.64

Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitization data

Calculation method : Causes mild skin irritation.
Calculation method : Causes serious eye irritation.
Calculation method : May cause an allergic skin reaction.

Respiratory sensitization data

Calculation method: Not classified.

Germ cell mutagenicity Calculation method : Suspected of causing genetic defects.

Carcinogenicity Calculation method : Suspected of causing cancer. Reproductive toxicity Calculation method : Not classified.

Lactation Calculation method: Not classified.
STOT - single exposure Calculation method: Not classified.
STOT - repeated exposure Calculation method: Not classified.
Aspiration hazard Calculation method: Not classified.

11.2 Other information

Not known.

#### SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates
Toxicity - Fish
Toxicity - Algae
Toxicity - Sediment Compartment
Toxicity - Terrestrial Compartment

12.2 Persistence and degradability

Not known.
Not classified.
Not classified.

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

# 12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Listed in: List II: Substances under evaluation for endocrine disruption under an EU

legislation 95-14-7 (Environment)

### SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse

site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

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

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant

14.6 Special precautions for user

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Not known

# 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

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

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

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex

XIV) list of substances subject to

Not listed

authorisation

UK REACH Restrictions List (Annex XVII) Reproductive toxicants: Category 1 B (140-01-2), Potassium carbonate (584-08-7), Restrictions on the manufacture, placing 1,4-dihydroxybenzenehydroquinonequinol (123-31-9), 4-(hydroxymethyl)-4-methyl-

on the market and use of certain

1-phenylpyrazolidin-3-one (13047-13-7), Potassium bromide (7758-02-3), Benzotriazole (95-14-7), sodium hydroxidecaustic soda (1310-73-2)

dangerous substances, mixtures and articles UK REACH Rolling Action Plan (RAP)

Not listed

The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as Not listed

amended

The Ozone-Depleting Substances and

Fluorinated Greenhouse Gases

Not listed

(Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583) Not listed

The Prior Informed Consent (PIC) Regulations concerning the export and

import of hazardous chemicals

SI2008/2108 as amended

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP) Hydroquinone (123-31-9), Benzotriazole (95-14-7)

15.2 Chemical Safety Assessment

United Kingdom A REACH chemical safety assessment has not been carried out.

# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

### **LEGEND**

Hazard Pictogram(s)





GHS05: GHS: Corrosion GHS09: GHS: Environment

Hazard classification

Met. Corr. 1: Substance or mixture corrosive to metals, Category 1

Acute Tox. 4: Acute toxicity, Category 4

Skin Corr. 1A: Skin corrosion/irritation, Category 1A Skin Irrit. 2: Skin corrosion/irritation, Category 2 Skin Sens. 1B: Skin sensitization, Category 1B Eye Dam. 1: Serious eye damage/irritation, Category 1 Eye Irrit. 2 : Serious eye damage/irritation, Category 2

Acute Tox. 4: Acute toxicity, Category 4

STOT SE 3: Specific target organ toxicity — single exposure, Category 3

Muta. 2: Germ cell mutagenicity, Category 2 Carc. 2: Carcinogenicity, Category 2 Repr. 2: Reproductive toxicity, Category 2

STOT RE 2: Specific target organ toxicity — repeated exposure, Category 2 Aguatic Acute 1: Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment, Chronic, Category 1

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Aquatic Chronic 3: Hazardous to the aquatic environment, Chronic, Category 3

### Hazard Statement(s)

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

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.

H361: Suspected of damaging fertility or the unborn child.

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

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statement(s)

P101: If medical advice is needed, have product container or label at hand.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

P321: Specific treatment (see Medical Advice on this label).

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 data used to compile the SDS

Regular safety training as appropriate

Training Advice Disclaimers

Acronyms

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