Ilfotec DD/DD-X Film 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 Ilfotec DD-X Film Developer

(Contains: Hydroquinone, Sodium tetraborate decahydrate, boric acid, pentasodium

(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate)

1155055 Product code

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

Photographic Developer Solution Identified Use(s)

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 Ilford Way

Mobberley Knutsford Cheshire East **WA16 7JL**

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

F-mail web-admin@harmantechnology.com

Office hours

Supplier

Company Identification HARMAN Technology Ltd

Ilford Way Address of Supplier

Mobberley Knutsford Cheshire East WA16 7JL

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

E-mail web-admin@harmantechnology.com

Office hours

1.4 Emergency telephone number

National response centre

NHS Direct Address 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 Dam. 1: Causes serious eye damage. Muta. 2 :Suspected of causing genetic defects.

Carc. 2 :Suspected of causing cancer. Repr. 1B: May damage fertility or the unborn child. Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 2: Toxic 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 Ilfotec DD-X Film Developer

(Contains: Hydroquinone, Sodium tetraborate decahydrate, boric acid, pentasodium

(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate)

Hazard Pictogram(s)







Signal Word(s) Danger

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

H318: Causes serious eye damage.

Ilfotec DD/DD-X Film Developer

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

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

Precautionary Statement(s) P102: Keep out of reach of children.

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.

P405: Store locked up.

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

2.3 Other hazards

None known.

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)	1	Hazard Statement(s)	Hazard Pictogram(s)
2,2' -oxybisethanol	111-46-6	203-872-2	1-5%	Acute Tox. 4 H302	GHS07
Hydroquinone	123-31-9	204-617-8		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 tetraborate decahydrate	1303-96-4	603-411-9	l .	Eye Irrit. 2 H319 Repr. 1B H360	GHS08 GHS07
Boric acid	10043-35-3	233-139-2	1-5%	Repr. 1B H360	GHS08
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	205-391-3	1	Acute Tox. 4 H332 Repr. 2 H361 STOT RE 2 H373	GHS08 GHS07
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. Immediately call a POISON CENTRE/doctor.

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

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Ilfotec DD/DD-X Film Developer

Specific treatment (see Medical Advice on this label). IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURE

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

Avoid release to the environment. Spillages or uncontrolled discharges into

watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Collect spillage. 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.

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

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep out of reach of children.

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				
2,2'-Oxydiethanol	111-46-6	23	101							
Hydroquinone	123-31-9		0.5							

Region United Kingdom

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

Remark Notes

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

Ilfotec DD/DD-X Film Developer

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.



Respiratory protection Normally no personal respiratory protection is necessary.



Thermal hazards None known.

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. Not known.

Upper/lower flammability or explosive

limits

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

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

Solubility (Other): Not known.

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

9.2 Other information

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.

Ilfotec DD/DD-X Film Developer

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 - 6885.91

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

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 1436.03

Skin corrosion/irritation Calculation method : Not classified.

Serious eye damage/irritation Calculation method : Causes serious eye damage.
Skin sensitization data Calculation method : May cause an allergic skin reaction.

Germ cell mutagenicity

Calculation method : Suspected of causing genetic defects.

Carcinogenicity

Calculation method : Suspected of causing cancer.

Reproductive toxicity

Calculation method : May damage fertility or the unborn child.

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

Very toxic 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.

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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

None known.

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 name14.3 Transport hazard class(es)

Not applicable

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Ilfotec DD/DD-X Film Developer

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 disodium tetraborate, anhydrous (1303-96-4), Boric acid (10043-35-3)

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex

Not listed

XIV) list of substances subject to

authorisation

UK REACH Restrictions List (Annex XVII) Reproductive toxicants: Category 1 B (140-01-2), Toxic to reproduction: category 1B Restrictions on the manufacture, placing (1303-96-4), Toxic to reproduction: category 1B (10043-35-3), 2,2' -oxybisethanol (111-46-6), Hydroquinone (123-31-9), 4-(hydroxymethyl)-4-methyl-1-

on the market and use of certain dangerous substances, mixtures and

phenylpyrazolidin-3-one (13047-13-7)

articles

UK REACH Rolling Action Plan (RAP) The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as

Not listed Not listed

amended

The Ozone-Depleting Substances and

Fluorinated Greenhouse Gases

Not listed

(Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583)

The Prior Informed Consent (PIC)

Not listed

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) 2,2'-oxydiethanol (111-46-6), Hydroquinone (123-31-9)

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)









Hazard classification

Acute Tox. 4: Acute toxicity, Category 4 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 Muta. 2: Germ cell mutagenicity, Category 2 Carc. 2: Carcinogenicity, Category 2

Repr. 1B: Reproductive toxicity, Category 1B Repr. 2: Reproductive toxicity, Category 2

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

Hazard Statement(s)

H302: Harmful if swallowed.

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

Ilfotec DD/DD-X Film Developer

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

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. H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P102: Keep out of reach of children.

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.

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.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

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. P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage. 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

Training Advice
Disclaimers

Acronyms

Regular safety training as appropriate

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