

Ifotec LC29 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 Ifotec LC29 Film Developer
(Contains: 2,2'-oxybisethanoldiethylene glycol, 4-methyl-1-phenyl-3-pyrazolidone, Diethanolamine, Hydroquinone, N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid), Sodium bromide)

Product code 1131811

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 Iford Way
Mobberley
Knutsford
Cheshire East
WA16 7JL
Postal code
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 Iford Way
Mobberley
Knutsford
Cheshire East
WA16 7JL
Postal code
Telephone: +44(0)1565 650000
Fax: +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 UK SI 2020/1567
Acute Tox. 4 :Harmful if swallowed.
Skin Irrit. 2 :Causes skin irritation.
Skin Sens. 1B :May cause an allergic skin reaction.
Eye Dam. 1 :Causes serious eye damage.
Muta. 2 :Suspected of causing genetic defects.
Carc. 2 :Suspected of causing cancer.
STOT RE 2 :May cause damage to organs through prolonged or repeated exposure.
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 Ifotec LC29 Film Developer
(Contains: 2,2'-oxybisethanoldiethylene glycol, 4-methyl-1-phenyl-3-pyrazolidone, Diethanolamine, Hydroquinone, N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid), Sodium bromide)

Hazard Pictogram(s)

GHS05



GHS08



GHS07



GHS09

Ilfotec LC29 Film Developer

Signal Word(s)	Danger
Hazard Statement(s)	H302: Harmful if swallowed. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H341: Suspected of causing genetic defects. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure. 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. P302+P352+P310: IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTRE/doctor. 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)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Diethanolamine	111-42-2	203-868-0	10-30%	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT RE 2 H373	GHS05 GHS08 GHS07
2,2' -oxybisethanoldiethylene glycol	111-46-6	203-872-2	5-10%	Acute Tox. 4 H302	GHS07
Hydroquinone	123-31-9	204-617-8	5-10%	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
N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)	67-43-6	200-652-8	1-5%	Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 2 H361 STOT RE 2 H373	GHS08 GHS07
4-methyl-1-phenyl-3-pyrazolidone	2654-57-1	220-180-6	<1%	Acute Tox. 4 H302 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS07 GHS09
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	205-391-3	<1%	Met. Corr. 1 H290 Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 2 H361	GHS05 GHS08 GHS07

Ilfotec LC29 Film Developer

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 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 Rinse mouth. Immediately call a POISON CENTRE/doctor.

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

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

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. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. 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/m ³)	STEL (ppm)	STEL (mg/m ³)	Note

Ilfotec LC29 Film Developer

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

Region Source
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



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

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



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.
pH	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 limits	Not known.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Not known. 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

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Ilfotec LC29 Film Developer

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.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute toxicity - Ingestion

Calculation method : Harmful if swallowed.

Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 1496

Acute toxicity - Skin Contact

Calculation method : Not classified.

Acute toxicity - Inhalation

Calculation method : Not classified.

Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 659.24

Skin corrosion/irritation

Calculation method : Causes skin irritation.

Serious eye damage/irritation

Calculation method : Causes serious eye damage.

Skin sensitization data

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

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

Not known.

Toxicity - Fish

Not known.

Toxicity - Algae

Not known.

Toxicity - Sediment Compartment

Not classified.

Toxicity - Terrestrial Compartment

Not classified.

12.2 Persistence and degradability

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.

Ilfotec LC29 Film Developer

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	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 authorisation Not listed

UK REACH Restrictions List (Annex XVII) Reproductive toxicants: Category 1 B (67-43-6), Reproductive toxicants: Category 1 B (140-01-2), 2,2'-oxybisethanoldiethylene glycol (111-46-6), Hydroquinone (123-31-9), Diethanolamine (111-42-2), 4-methyl-1-phenyl-3-pyrazolidone (2654-57-1), Sodium bromide (7647-15-6)
Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articlesUK REACH Rolling Action Plan (RAP) Not listed
The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as amended Not listed

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (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 Not listed

European Regulations - Authorisations and/or Restrictions On Use
Community Rolling Action Plan (CoRAP) 2,2'-oxydiethanol (111-46-6), Hydroquinone (123-31-9), 2,2'-iminodiethanol (111-42-2)

2,2'-iminodiethanol (111-42-2)

2,2'-iminodiethanol (111-42-2)

2,2'-iminodiethanol (111-42-2)

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



GHS08



GHS07



GHS09

Hazard classification

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

Acute Tox. 4 : Acute toxicity, Category 4

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Skin Sens. 1 : Skin sensitization, Category 1

Skin Sens. 1B : Skin sensitization, Category 1B

Eye Dam. 1 : Serious eye damage/irritation, Category 1

Ilfotec LC29 Film Developer

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. 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)

H290: May be corrosive to metals.
 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.
 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.
 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.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash hands and exposed skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 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.
 P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P302+P352+P310: IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTRE/doctor.
 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.
 P314: Get medical advice/attention if you feel unwell.
 P321: Specific treatment (see Medical Advice on this label).
 P330: Rinse mouth.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 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.

Acronyms

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

Ilfotec LC29 Film Developer

STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
vPvB : very Persistent and very Bioaccumulative

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

Training Advice

Disclaimers

Regular safety training as appropriate

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. HARMAN Technology Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. HARMAN Technology Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.