

**Ifotec LC29 Film Developer**

ACCORDING TO WORK HEALTH AND SAFETY (WHS) REGULATIONS

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**Product Name Ifotec LC29 Film Developer  
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 Ilford 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 hoursSupplier  
Company Identification C R Kennedy & Co  
Address of Supplier For local contact information please see website:  
<https://crkphotoimaging.com.au/office-locations>  
Postal code VIC 3207  
NSW 2020  
QLD 4000/4870  
WA 6021  
SA 5067  
TAS 7000  
Telephone: VIC - +61 (03) 9823 1555  
NSW - +61 (02) 9552 8300  
QLD - +61 (07) 3632 6777/ +61 (07) 4031 5399  
WA - +61 (08) 9489 8500  
SA - +61 (08) 8410 0533  
TAS - +61 (03) 9823 1850  
E-mail <https://crkphotoimaging.com.au/contact-us>**1.4 Emergency telephone number**NSW Poisons Information Centre  
Address The Children's Hospital at Westmead  
Locked Bag 4001  
Westmead, NSW 2145  
Emergency Phone No. 13 11 26**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**In accordance to GHS as implemented under WHS Regulations  
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.**2.2 Label elements**In accordance to GHS as implemented under WHS Regulations  
Product Name Ifotec LC29 Film Developer

Hazard Pictogram(s)



GHS05



GHS08



GHS07

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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.
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.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Diethanolamine	111-42-2	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	5-10%	Acute Tox. 4 H302	GHS07
Hydroquinone	123-31-9	5-10%	Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351	GHS05 GHS08 GHS07 GHS09
N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)	67-43-6	1-5%	Eye Irrit. 2A H319 Acute Tox. 4 H332 Repr. 2 H361 STOT RE 2 H373	GHS08 GHS07
4-methyl-1-phenyl-3-pyrazolidone	2654-57-1	<1%	Acute Tox. 4 H302 Skin Sens. 1 H317	GHS07 GHS09
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	<1%	Met. Corr. 1 H290 Eye Irrit. 2A H319 Acute Tox. 4 H332 Repr. 2 H361	GHS05 GHS08 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.

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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.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Causes burns. Allergic contact dermatitis.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Specific treatment (see Medical Advice on this label). Immediately call a POISON CENTRE/doctor. Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

<b>5.1 Extinguishing media</b>	
Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	None.
<b>5.2 Special hazards arising from the substance or mixture</b>	May decompose in a fire, giving off toxic and irritant vapours.
<b>5.3 Advice for firefighters</b>	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.
<b>6.2 Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
<b>6.3 Methods and material for containment and cleaning up</b>	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.
<b>6.4 Reference to other sections</b>	See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE**

<b>7.1 Precautions for safe handling</b>	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.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store locked up. Keep out of reach of children.
Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.
<b>7.3 Specific end use(s)</b>	Photographic Developer Solution

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**  
8.1.1 Occupational Exposure Limits

WORKPLACE EXPOSURE STANDARDS FOR AIRBORNE CONTAMINANTS						
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
2,2'-Oxybis[ethanol]	111-46-6	23	100			
Hydroquinone	123-31-9		2			Carc. 2
Diethanolamine	111-42-2	3	13			

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Remark	Notes
Carc. 2	Carcinogenicity Category 2 – Suspected human carcinogen.

**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**

Physical state	Liquid.
Colour	Not known.
Odour	Not known.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	Not known.
Solubility	Solubility (Water) : Not known. Solubility (Other) : Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	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.

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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 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 name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing group**

Not applicable

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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**

Australian Inventory of Industrial Chemicals (AIIC) Listed : 111-46-6, 123-31-9, 111-42-2, 2654-57-1, 7732-18-5, 67-43-6, 7647-15-6, 7757-82-6, 140-01-2, 21049-70-7  
 IMAP (Inventory Multi-Tiered Assessment and Prioritisation) – Stage One chemicals 111-46-6, 123-31-9, 111-42-2, 7647-15-6, 7757-82-6, 140-01-2  
 List of PECs (Priority Existing Chemicals) Not listed  
 NPI (National Pollutant Inventory) Not listed  
 Schedule 10 of WHS Regulations – Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals Not listed

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)



GHS05



GHS08



GHS07

GHS09: GHS: Environment

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  
 Eye Irrit. 2A : Serious eye damage/irritation, Category 2A  
 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 Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1

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

Precautionary Statement(s)

P102: Keep out of reach of children.

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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.  
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.  
P310: Immediately call a POISON CENTRE/doctor.  
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.  
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  
LTEL : Long term exposure limit  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity

Key literature references and sources for data used to compile the SDS In accordance to GHS as implemented under WHS Regulations

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