Ilfotec DD-X Film Developer USA/Can

ACCORDING TO US CFR 1910.1200

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

 1.1 Product identifier Product Name Product Code 1.2 Relevant identified uses of the s Identified Use(s) Uses Advised Against 1.3 Details of the supplier of the safe Manufacturer Company Identification Address of Manufacturer 	Ilfotec DD/DD-X Film Developer USA/Can 1155055, 1760109 ubstance or mixture and uses advised against Photographic Developer Solution Not known. ety data sheet HARMAN Technology Ltd Ilford Way Mobberley
Zip code Telephone: Fax E-mail Office hours Supplier	Knutsford Cheshire East WA16 7JL +44(0)1565 650000 +44(0)1565 872734 web-admin@harmantechnology.com
Company Identification Address of Supplier	Roberts Distributors L.P. 220 E Saint Clair St. Indianapolis IN
Zip code Telephone: E-mail Office hours	46204 USA +1 877-281-6405 info@robertsdistributors.com
1.4 Emergency telephone number State & Territory Poison Help Centres Emergency Phone No. Contact	1-800-222-1222 PoisonHelp@hrsa.gov
SECTION 2: HAZARDS IDENTIFICAT 2.1 Classification of the substance of US CFR 1910.1200	
2.1 Classification of the substance of	or mixture 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. Repr. 1B :May damage fertility or the unborn child.
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Precautionary Statement(s)	 P102: Keep out of reach of children. 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.
SECTION 3: COMPOSITION/INFORM	For full text of H/P Statements see section 16.

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	/Hazard Statement(s)	Hazard Pictogram(s)
2,2' -oxybisethanol	111-46-6	1-5%	Acute Tox. 4 H302 STOT RE 2 H373	GHS08 GHS07
Hydroquinone	123-31-9	1-5%	Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351	GHS05 GHS08 GHS07
Sodium tetraborate decahydrate	1303-96-4	1-5%	Eye Irrit. 2B H320 Repr. 1B H360	GHS08
Missing Phrase	10043-35-3	1-5%	Acute Tox. 4 H332 Repr. 1B H360	GHS08 GHS07
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	<1%	Acute Tox. 4 H332 STOT RE 2 H373	GHS08 GHS07
4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin-3-one	13047-13-7	<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 CENTER/doctor.
Ingestion	IF exposed or concerned: Get medical advice/attention.
4.2 Most important symptoms and effe	ects, both acute and delayed Causes burns. Allergic contact dermatitis.
4.3 Indication of any immediate medica	al attention and special treatment needed Specific treatment (see Medical Advice on this label). Immediately call a POISON CENTER/doctor. Treat symptomatically.
SECTION 5: FIRE-FIGHTING MEASURE	S

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		

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	May decompose in a fire, giving off toxic and irritant vapors.
5.3 Advice for firefighters	Eine fickland chardel and a second state of the state in the instantion of the state in the
	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.
SECTION 6: ACCIDENTAL RELEAS	SE MEASURES
6.1 Personal precautions, protect	ive equipment and emergency procedures
·····, .	Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.
6.2 Environmental precautions	F
	Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
6.3 Methods and material for cont	tainment 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 shoveled
	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 STOP	RAGE
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, in	
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	LTEL (8 hr	STEL	STEL	Note:
		TWA ppm)	TWA mg/m ³)	(ppm)	(mg/m³)	
Hydroquinone (Dihydroxybenzene)	123-31-9		1			ACGIH TLV, DSEN, A3
Hydroquinone; 1,4-benezendiol; Dihydroxybenzene	123-31-9		2			OSHA PEL
Hydroquinone (Dihydroxybenzene)	123-31-9				2	NIOSH REL Z-1, C1, ST [15min]
Hydroquinone (Dihydroxybenzene)	123-31-9		2			OSHA PEL Z-1
Borate compounds, inorganic	1303-96-4		2		6	ACGIH TLV, I, A4
Sodium tetraborate, decahydrate	1303-96-4		5			NIOSH REL Z-1
Borate compounds, inorganic	10043-35-3		2		6	ACGIH TLV, I, A4

Remark ACGIH TLV DSEN A3 OSHA PEL NIOSH REL Z-1 C1 ST [15min] OSHA DEL Z-1	Notes The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2022 May cause dermal sensitization Confirmed Animal Carcinogen with Unknown Relevance to Humans Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs), 2019 National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week, 2022 Ceiling limit of Short-term Exposure Limit Short Term Exposure Limit with 15min duration Occupational Safety and Health durinisticing (OCHA) Permissible Exposure Limit (REL) from 20 CEB 1010 1000 Z 1 Table 2022
• ·	

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 (EN166).		
(I'''''	Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).		
	Respiratory protection	A suitable mask with filter type A (EN14387 or EN405) may be appropriate.		
	Thermal hazards	None known.		
		Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.		
SECTION 9: PH	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
	Color : Not known.
Odor	Not known.
Odor 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	Not known.
limits	
Vapor pressure	Not known.
Vapor 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.
Oxidizing 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 reaction	
	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 Hazardaua decomposition produc	
10.6 Hazardous decomposition produce	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 - 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 - 305.63
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.
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 : May damage fertility or the unborn child.
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)	.
	De altie e ana an	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

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not known

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations		
Toxic and hazardous substances (29	Listed : 123-31-9	
CFR 1910; Subpart Z)		
National emission standards for	Not listed	
hazardous air pollutants (40 CFR 61.01)		
SARA Title III Section 313	Listed : 123-31-9	
TSCA (Toxic Substance Control Act)		-46-6 (Active), 123-31-9 (Active), 13047-13-7
		-96-4 (Active), 10043-35-3 (Active), 7732-18-5
OAA 000 One Deviation Out stands	(Active)	
CAA 602 - Ozone Depleting Substances	Not listed	
(ODS) 15.2 US State Regulations		
State Right to Know Lists		
Proposition 65 (California)		Not listed
Massachusetts		Listed : 123-31-9, 1303-96-4
Minnesota		Listed : 111-46-6, 123-31-9, 1303-96-4
New Jersey		Listed : 123-31-9, 1303-96-4, 10043-35-3
Pennsylvania		Listed : 123-31-9, 1303-96-4
Rhode Island		Listed : 111-46-6, 123-31-9, 1303-96-4
15.3 Other		
OSPAR List of Chemicals for Priority Action		Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)		Not listed
NTP (National Toxicology Program)		Not listed
IARC (International Agency for Research	on Cancer)	Listed : 123-31-9

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s) GHS05 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. 2B : Serious eye damage/irritation, Category 2B 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 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2 Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1 H302: Harmful if swallowed. Hazard Statement(s) H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H320: Causes 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. H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.

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Precautionary Statement(s)	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/vapors/spray.
	P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
	P272: Contaminated work clothing must not be allowed out of the workplace.
	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.
	P310: Immediately call a POISON CENTER/doctor.
	P314: Get medical advice/attention if you feel unwell.
	P321: Specific treatment (see Medical Advice on this label).
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
	P363: Wash contaminated clothing 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	US CFR 1910.1200
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