### ACCORDING TO US CFR 1910.1200

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

<ul> <li>1.1 Product identifier</li> <li>Product Name</li> <li>Product Code</li> <li>1.2 Relevant identified uses of the sidentified Use(s)</li> <li>Uses Advised Against</li> <li>1.3 Details of the supplier of the sa</li> <li>Manufacturer</li> </ul>	Multigrade Paper Developer USA/CAN 1918555, 1155073, 1757855 <b>substance or mixture and uses advised against</b> Photographic Developer Solution Not known. <b>fety data sheet</b>
Company Identification Address of Manufacturer	HARMAN Technology Ltd Ilford Way Mobberley Knutsford Cheshire East
Zip code Telephone: Fax E-mail Office hours Supplier	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 1.4 Emergency telephone number	46204 USA +1 877-281-6405 info@robertsdistributors.com
State & Territory Poison Help Centres Emergency Phone No. Contact	1-800-222-1222 PoisonHelp@hrsa.gov
SECTION 2: HAZARDS IDENTIFICAT	ΓΙΟΝ
SECTION 2: HAZARDS IDENTIFICAT 2.1 Classification of the substance US CFR 1910.1200	
2.1 Classification of the substance	or mixture Skin Irrit. 2 :Causes skin irritation. Skin Sens. 1B :May cause an allergic skin reaction. Eye Irrit. 2A :Causes serious eye irritation. Muta. 2 :Suspected of causing genetic defects. Carc. 2 :Suspected of causing cancer. Repr. 2 :Suspected of damaging fertility or the unborn child.
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<ul><li>2.1 Classification of the substance US CFR 1910.1200</li><li>2.2 Label elements</li></ul>	or mixture Skin Irrit. 2 :Causes skin irritation. Skin Sens. 1B :May cause an allergic skin reaction. Eye Irrit. 2A :Causes serious eye irritation. Muta. 2 :Suspected of causing genetic defects. Carc. 2 :Suspected of causing cancer. Repr. 2 :Suspected of damaging fertility or the unborn child. According to US CFR 1910.1200
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H361: Suspected of damaging fertility or the unborn child.

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Precautionary Statement(s)	<ul> <li>P102: Keep out of reach of children.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P405: Store locked up.</li> <li>P501: Dispose of contents in accordance with local, state or national legislation.</li> </ul>
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/INFORMA	TION ON INGREDIENTS

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Not applicable.

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Water	7732-18-5	73.5138	Not classified	None
Sodium sulphite	7757-83-7	10-30%	Not classified.	None
Potassium carbonate	584-08-7	5-10%	Skin Irrit. 2 H315 Eye Irrit. 2B H320 STOT SE 3 H335	GHS07
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	<3%	Acute Tox. 4 H332 Repr. 2 H361	GHS08 GHS07
1,4-dihydroxybenzenehydroquinonequinol	123-31-9	<2.5%	Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351	GHS05 GHS08 GHS07
sodium hydroxidecaustic soda	1310-73-2	<1%	Met. Corr. 1 H290 Skin Corr. 1A H314	GHS05
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 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 effe	cts, both acute and delayed
	May cause irritation. Allergic contact dermatitis.
4.3 Indication of any immediate medica	al 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: FIRE-FIGHTING MEASURE	S
<b>5.1 Extinguishing Media</b> Suitable Extinguishing Media	As appropriate for surrounding fire.

Unsuitable Extinguishing Media	None.
5.2 Special hazards arising from the su	
	May decompose in a fire, giving off toxic and irritant vapors.
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 ME	
6.1 Personal precautions, protective ed	quipment 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 containm	
	Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain
	spillages with sand, earth or any suitable adsorbent material. Earth may be shoveled
<b></b>	to contain spillage and to avoid contamination of sewers and watercourses.
6.4 Reference to other sections	One Alex Onether 0.40
	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, includ	
	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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
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, C, ST [15min]
Hydroquinone (Dihydroxybenzene)	123-31-9		2			OSHA PEL Z-1
Sodium hydroxide	1310-73-2				2	ACGIH TLV, C
Sodium hydroxide; caustic soda	1310-73-2				2	OSHA PEL, C
Sodium hydroxide	1310-73-2				2	NIOSH REL Z-1, C
Sodium hydroxide	1310-73-2		2			OSHA PEL Z-1

 Remark
 Notes

 ACGIH TLV
 The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2024

 DSEN
 May cause dermal sensitization

 A3
 Confirmed Animal Carcinogen with Unknown Relevance to Humans

 OSHA PEL
 Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs), 2019

 NIOSH REL Z-1
 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

 C
 Ceiling limit of Short-term Exposure Limit

 ST [15min]
 Shot Term Exposure Limit uith 15min duration

 OSHA PEL Z-1
 Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table, 2022

Substances	CAS Number	CAS Sampling		•		Biological monitoring guidance value	Comments
Methemoglobin Inducers	123-31-9		ng or end of	blood	parameters Methemoglobin	5% of hemoglobin	B, Ns
Remark B b Ns	<sub>Notes</sub> Background After exposure Nonspecific	e to solut	ble compound	s			
<b>3.2 Exposure c</b> 3.2.1. Appropria		controls		,		ilation or breathing protection. A v purposes should be present.	vashing
3.2.2. Personal	protection equip	oment					
	Eye Protection		Wear eye pr	rotection	with side protection	on (EN ISO 16321-1).	
	Skin protection					npervious gloves (EN 374). Break nformation provided by the gloves	
	Respiratory pro	tection	A suitable m	nask with	n filter type A (EN14	4387 or EN405) may be appropria	te.
	Thermal hazard	ls	None knowr	۱.			
8.2.3. Environm	ental Exposure	Controls	Spillages or appropriate			to watercourses must be alerted t	o the
	YSICAL AND C						

### 9.1 Information on basic physical and chemical properties

3.1 mormation on basic physical and	chemical properties
Physical state	Liquid.
Color	Not known.
Odor	Not known.
Melting Point/Freezing Point	Not known.
Boiling point or initial boiling point and	Not known.
boiling range	
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	Not known.
value)	
Vapor pressure	Not known.
Density and/or relative density	Not known.
Relative vapor 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 reaction	15
	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 produ	icts
	No hazardous decomposition products known.
SECTION 11: TOXICOLOGICAL INFOR	MATION
11.1 Information on toxicological effe	cts
Acute toxicity - Ingestion	Calculation method : Not classified.

Acute toxicity - Ingestion	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 18554.25
Acute toxicity - Skin Contact Acute toxicity - Inhalation	Calculation method : Not classified. Calculation method : Not classified.
, louis toxiolity initialation	Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 387.64
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye irritation.
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 : Suspected of damaging 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

12.1 TOXICILY	
	Toxic to aquatic life. Harmful 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	
2	Not known.
12.5 Other adverse effects	
	Listed in:
	List II: Substances under evaluation for endocrine disruption under an EU legislation 95-14-7 (Environment)
SECTION 13: DISPOSAL CONSIDER	ATIONS
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.

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14.1	UN number	Not applicable
14.2	UN proper shipping name	
14.3	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	Mad her soon
		Not known
14.7	Transport in bulk according to A	nnex II of Marpol and the IBC Code Not known

#### SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed : 123-31-9, 1310-73-2			
National emission standards for	Not listed			
hazardous air pollutants (40 CFR 61.01)	Listad - 400-04-0			
SARA Title III Section 313 TSCA (Toxic Substance Control Act)	Listed : 123-31-9	8-7 (Active), 123-31-9 (Active), 13047-13-7		
	· · · ·	4-7 (Active), 140-01-2 (Active), 7732-18-5 (Active),		
	1310-73-2 (Active)			
CAA 602 - Ozone Depleting Substances	Not listed			
(ODS)				
15.2 US State Regulations				
State Right to Know Lists		N = 4 lists d		
Proposition 65 (California) Massachusetts		Not listed Listed : 123-31-9, 95-14-7, 1310-73-2		
Massachuseus Minnesota		Listed : 123-31-9, 1310-73-2		
New Jersey		Listed : 123-31-9, 1310-73-2		
Pennsylvania		Listed : 123-31-9, 1310-73-2		
Rhode Island		Listed : 123-31-9, 1310-73-2		
15.3 Other				
OSPAR List of Chemicals for Priority Acti		Not listed		
OSHA (List of Highly Hazardous Chemica	als, 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: GHS: Corrosion

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. 2A : Serious eye damage/irritation, Category 2A Eye Irrit. 2B : Serious eye damage/irritation, Category 2B Acute Tox. 4 : Acute toxicity, Category 4

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	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
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.
	H320: Causes 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.
Precautionary Statement(s)	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 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.
	P321: Specific treatment (see Medical Advice on this label).
	P332+P313: If skin irritation occurs: Get medical advice/attention.
	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.
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
Disclaimore	Information contained in this publication or as otherwise supplied to Users is believe

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