

HARMAN Warmtone Paper 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 HARMAN Warmtone Paper Developer USA/Can
Product Code 1140279

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
WA16 7JL
Zip code
Telephone: +44(0)1565 650000
Fax +44(0)1565 872734
E-mail web-admin@harmantechnology.com
Office hours

Supplier
Company Identification Roberts Distributors L.P.
Address of Supplier 220 E Saint Clair St.
Indianapolis
IN
46204 USA
Zip code
Telephone: +1 877-281-6405
E-mail info@robertsdistributors.com
Office hours

1.4 Emergency telephone number

State & Territory Poison Help Centres
Emergency Phone No. 1-800-222-1222
Contact PoisonHelp@hrsa.gov

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

US CFR 1910.1200 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

According to US CFR 1910.1200
Product Name HARMAN Warmtone Paper Developer USA/Can

Hazard Pictogram(s)



GHS05



GHS08



GHS07

Signal Word(s)

Danger

Hazard Statement(s)

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.

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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

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/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Potassium carbonate	584-08-7	10-30%	Skin Irrit. 2 H315 Eye Irrit. 2B H320 STOT SE 3 H335	GHS07
tetrasodium ethylene diamine tetraacetate	64-02-8	1-5%	Acute Tox. 4 H302 Eye Dam. 1 H318 Acute Tox. 4 H332 STOT RE 2 H373	GHS05 GHS08 GHS07
Hydroquinone	123-31-9	<2.3%	Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351	GHS05 GHS08 GHS07
potassium hydroxide	1310-58-3	<1%	Acute Tox. 4 H302 Skin Corr. 1A H314	GHS05 GHS07
4-methyl-1-phenyl-3-pyrazolidone	2654-57-1	<1%	Acute Tox. 4 H302 Skin Sens. 1 H317	GHS07
1-phenyl-3-pyrazolidone	92-43-3	<1%	Acute Tox. 4 H302 Acute Tox. 4 H312	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. Immediately call a POISON CENTER/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

Specific treatment (see Medical Advice on this label). Immediately call a POISON CENTER/doctor. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES**5.1 Extinguishing Media**

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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 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 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

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb 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 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, including any incompatibilities

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 ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Hydroquinone (Dihydroxybenzene)	123-31-9		1			ACGIH TLV, DSEN, A3
Hydroquinone; 1,4-benzenediol; 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
Potassium hydroxide	1310-58-3				2	ACGIH TLV, C
Potassium hydroxide	1310-58-3				2	NIOSH REL Z-1, C

Remark
ACGIH TLV
DSEN
A3
OSHA PEL
NIOSH REL Z-1

C
ST [15min]
OSHA PEL Z-1

Notes
The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2024
May cause dermal sensitization
Confirmed Animal Carcinogen with Unknown Relevance to Humans
Occupational Safety and Health (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 Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table, 2022

BEI: Biological Exposure Indices (ACGIH)						
Substances	CAS	Sampling	Tissues	Control	Biological monitoring guidance	Comments

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	Number			parameters	value	
Methemoglobin Inducers	123-31-9	During or end of shift	blood	Methemoglobin	5% of hemoglobin	B, Ns

Remark	Notes
B	Background
b	After exposure to soluble compounds
Ns	Nonspecific

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.
Color	Not known.
Odor	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.
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

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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 : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 7948.75
Acute toxicity - Skin Contact	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 1000000
Acute toxicity - Inhalation	Calculation method : Not classified. Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 339.46
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**

	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

Not known.

12.5 Other adverse effectsListed in:
List II: Substances under evaluation for endocrine disruption under an EU legislation 95-14-7 (Environment)**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.

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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 US Federal Regulations**

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed : 123-31-9
National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
SARA Title III Section 313	Listed : 123-31-9
TSCA (Toxic Substance Control Act)	Listed : 10117-38-1 (Active), 584-08-7 (Active), 123-31-9 (Active), 2654-57-1 (Active), 95-14-7 (Active), 7732-18-5 (Active), 64-02-8 (Active), 92-43-3 (Active), 1310-58-3 (Active), 7758-02-3 (Active)
CAA 602 - Ozone Depleting Substances (ODS)	Not listed

15.2 US State Regulations

State Right to Know Lists	Not listed
Proposition 65 (California)	Listed : 123-31-9, 95-14-7, 1310-58-3
Massachusetts	Listed : 123-31-9, 1310-58-3
Minnesota	Listed : 123-31-9, 1310-58-3
New Jersey	Listed : 123-31-9, 1310-58-3
Pennsylvania	Listed : 123-31-9, 1310-58-3
Rhode Island	Listed : 123-31-9, 1310-58-3

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



GHS08



GHS07

Hazard classification

Acute Tox. 4 : Acute toxicity, Category 4
 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. 1 : Skin sensitization, Category 1
 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
 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

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Muta. 2 : Germ cell mutagenicity, Category 2
 Carc. 2 : Carcinogenicity, Category 2
 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2

Hazard Statement(s)

H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H314: Causes severe skin burns and eye damage.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H320: Causes eye irritation.
 H332: Harmful if inhaled.
 H335: May cause respiratory irritation.
 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)

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.
 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.
 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).
 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 US CFR 1910.1200
 data used to compile the SDS

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