# Phenisol High Contrast 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

Phenisol High Contrast Film Developer USA/CAN **Product Name** 

**Product Code** 1757635

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 +44(0)1565 872734 Fax

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

info@robertsdistributors.com E-mail

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.

Repr. 2 :Suspected of damaging fertility or the unborn child.

2.2 Label elements

According to US CFR 1910.1200

**Product Name** Phenisol High Contrast Film Developer USA/CAN

Hazard Pictogram(s)









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.

H361: Suspected of damaging fertility or the unborn child.

# Phenisol High Contrast Film Developer USA/CAN

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.

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)
Sodium sulphite	7757-83-7	5-10%	Not classified.	None
Potassium sulphite	10117-38-1		Not classified.	None
1,4-dihydroxybenzenehydroquinonequinol	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
Potassium carbonate	584-08-7	1-5%	Skin Irrit. 2 H315 Eye Irrit. 2B H320 STOT SE 3 H335	GHS07
Potassium bromide	7758-02-3	1-5%	Eye Irrit. 2A H319	GHS07
sodium hydroxidecaustic soda	1310-73-2	<1%	Met. Corr. 1 H290 Skin Corr. 1A H314	GHS05
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	<1%	Acute Tox. 4 H332 Repr. 2 H361	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.

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

Suitable Extinguishing Media As appropriate for surrounding fire.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the substance or mixture

# Phenisol High Contrast Film Developer USA/CAN

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

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 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.

Ambient

Storage temperature

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/m³)	STEL (ppm)	STEL (mg/m³)	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

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

DSEN

OSHA PEL

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 NIOSH REL Z-1

Ceiling limit of Short-term Exposure Limit Short Term Exposure Limit with 15min duration ST [15min]

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

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

# Phenisol High Contrast Film Developer USA/CAN

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

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.

(in)

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 Not known.

boiling range

Flammability
Lower and upper explosion limit
Flash Point
Auto-ignition temperature
Decomposition Temperature
PH
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

# Phenisol High Contrast Film Developer USA/CAN

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 - 11112.1

Acute toxicity - Skin Contact Calculation method : Not classified.

Calculation method : Calculated acute toxicity estimate (ATE) Calc ATE - 999091.75

Acute toxicity - Inhalation Calculation method : Not classified.

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 3345.5

Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitization data
Calculation method : Causes skin irritation.
Calculation method : Causes serious eye damage.
Calculation method : May cause an allergic skin reaction.
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

Very toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates
Toxicity - Fish
Toxicity - Algae
Toxicity - Sediment Compartment
Toxicity - Terrestrial Compartment
Toxicity - Terrestrial Compartment
12.2 Persistence and degradability

Not known.
Not classified.
Not classified.

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

# Phenisol High Contrast Film Developer USA/CAN

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

Listed: 123-31-9, 1310-73-2 Toxic and hazardous substances (29

CFR 1910; Subpart Z)

National emission standards for Not listed

hazardous air pollutants (40 CFR 61.01)

Listed: 123-31-9 SARA Title III Section 313

TSCA (Toxic Substance Control Act) Listed: 10117-38-1 (Active), 584-08-7 (Active), 123-31-9 (Active), 7758-02-3

(Active), 7757-83-7 (Active), 92-43-3 (Active), 140-01-2 (Active), 7732-18-5 (Active),

86-93-1 (Active), 1310-73-2 (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, 1310-73-2 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 Listed: 123-31-9, 1310-73-2 Rhode Island

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

Listed: 123-31-9 IARC (International Agency for Research on Cancer )

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

## **LEGEND**

Hazard Pictogram(s)

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

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Muta. 2: Germ cell mutagenicity, Category 2

# Phenisol High Contrast Film Developer USA/CAN

Carc. 2 : Carcinogenicity, Category 2

Repr. 2: Reproductive toxicity, 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.

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

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.

P310: Immediately call a POISON CENTER/doctor.

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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