

MATERIALS SAFETY DATA

PATERSON PHOTOGRAPHIC LTD

REF: Universal**DATE: 05/04/02****ISSUE: 1****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY****1.1 Identification of the substance or preparation:****Product name: PATERSON UNIVERSAL DEVELOPER****Product use: Black and White Film and Print Developer****1.2 Company Identification:****Paterson Photographic Ltd
4 Malthouse Road
Tipton, West Midlands,
DY4 9AE, UK.****Telephone: +44 (0) 121 520 4830 Fax: +44 (0) 121 520 4830****1.3 Company emergency telephone number: +44(0) 121 520 4830 (Daytime)****2. COMPOSITION/INFORMATION ON INGREDIENTS.****Hazardous Ingredient: Hydroquinone****CAS Number: 123-31-9****Quantity: <2%****Hazard Classification: Xi-Irritant****Risk Phrases: R43 - May cause sensitisation by skin contact.****Safety Phrases: S2 - Keep out of reach of children
S24 - Avoid contact with skin
S37/39 - Wear suitable gloves and eye/face protection****Hazardous Ingredient: Potassium Hydroxide****CAS Number: 1310-58-3****Quantity: <2%****Hazardous Classification: Xi - Irritant****Risk Phrases: R36/38 Irritating to eyes and skin****Safety Phrases: S2 - Keep out of reach of children**

3. HAZARDS IDENTIFICATION

The product can cause skin irritation and allergic skin reaction. Vapours may cause irritation. Avoid contact with skin and eyes. Avoid breathing fumes or mists.

4. FIRST AID MEASURES

IN ALL CASES OF DOUBT OR IF SYMPTOMS PERSIST, SEEK MEDICAL ADVICE. SHOW PRODUCT LABEL AND SAFETY DATA SHEET.

- 4.1 Eye contact: **Flush eyes immediately with plenty of running water for at least 15 minutes while holding the eyelids open. Seek medical attention at once.**
- 4.2 Skin contact: **Flush affected area with large amounts of water. Remove contaminated clothing and launder before reuse. Seek medical advice if irritation or redness persists.**
- 4.3 Inhalation: **Move person to non-contaminated air. Call a doctor immediately.**
- 4.4 Ingestion: **Give several glasses of water to dilute contents of stomach. Get medical attention immediately.**

5 FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media:

The product is not classed as flammable (water based). If involved in a major fire, irritating toxic fumes or gases may be produced. Use suitable extinguishing media for the surrounding fire.

5.2 Extinguishing media which must not be used for safety reasons:

N/A

5.3 Special exposure hazards:

N/A

5.4 Special protective equipment for fire fighters:

Wear protective clothing and self contained respiratory equipment.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

When dealing with spillages, use the personal protection specified in section 8. Ensure spill area is well ventilated

6.2 Environmental precautions:

Prevent spillages from entering drain by absorption into inert absorbent material (e.g. dry sand or earth) and transfer to a container for disposal by a licensed waste contractor.

6.3 Methods for cleaning up:

After collecting the bulk of the spillage, thoroughly wash area to drain with water.

7 HANDLING AND STORAGE

7.1 Handling:

Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using. Ensure adequate ventilation of the working area. Re-cap bottles after use.

7.2 Storage:

Store in a dry well ventilated area at a moderate temperature in the original containers. Ensure containers are securely re-capped after use.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Recommended engineering controls:

Ensure good ventilation or local exhaust ventilation of the working area.

8.2 Control parameters:

| Hazardous Ingredient | Content | Long Term | | Short Term | |
|-------------------------|---------|-----------|-------------------|------------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |

No relevant exposure limits.

8.3 Monitoring procedures:

No specific methods established.

8.4 Recommended personal protection:

Eyes: Wear safety glasses as the minimum level of protection.

Hands: Wear impervious gloves. Neoprene rubber is recommended.

Skin: Wear protective clothing appropriate for the risk of exposure.

Respiration: Not normally required. Use an approved respirator for large spillages.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|------|--|---------------------------------|
| 9.1 | Appearance: | Almost colourless liquid |
| 9.2 | Odour: | Slight |
| 9.3 | pH (concentrate): | 9.0-10.0. |
| 9.4 | Boiling point/boiling range: | N/A |
| 9.5 | Melting point/melting range: | N/A |
| 9.6 | Flash point: | N/A |
| 9.7 | Flammability: | Not flammable |
| 9.8 | Autoflammability: | N/A |
| 9.9 | Explosive properties: | N/A |
| 9.10 | Oxidising properties: | N/A |
| 9.11 | Vapour pressure: | N/D |
| 9.12 | Relative density: | 1.110 |
| 9.13 | Water solubility: | Completely soluble |
| 9.14 | Fat solubility: | N/D |
| 9.15 | Partition coefficient (n-octanol/water): | N/D |
| 9.16 | Other data: | |

10 STABILITY AND REACTIVITY

| | | |
|------|--------------------------|---|
| 10.1 | Stability: | Stable under recommended storage conditions. |
| 10.2 | Conditions to avoid: | None known. |
| 10.3 | Materials to avoid: | Acids. |
| 10.4 | Hazardous decomposition: | Reaction with acids produces carbon dioxide gas. |

11 TOXICOLOGICAL INFORMATION

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|---------------|--|
| Eye contact: | Likely to cause severe irritation and possible corneal damage due to presence of caustic alkali and hydroquinone. |
| Skin contact: | Prolonged or repeated contact may cause irritation and possible sensitisation. |
| Ingestion: | Likely to cause severe irritation of the mouth and gastro-intestinal tract. |

12 ECOLOGICAL INFORMATION

N/D

13 DISPOSAL CONSIDERATIONS

- 13.1 Disposal of material:
- Disposal should be in accordance with current local and national legislation and only by a licensed waste contractor. Do not dispose of into drains, sewers, or waterways.**
- 13.2 Disposal of packaging:
- Rinse thoroughly with water and dispose of as solid waste.**

| | | |
|------|------------------------------|--|
| 14 | TRANSPORT INFORMATION | Not classified as hazardous for road transport. |
| 14.1 | Labelling for transportation | N/A |

15 REGULATORY INFORMATION

| | | |
|------|-----------------|--|
| 15.1 | Classification: | Not classed as hazardous. |
| 15.2 | Risk Phrases: | N/A |
| 15.3 | Safety Phrases: | S2 - Keep out of reach of children. |

16 OTHER INFORMATION

Nature of revision: **N/A**

N.B. Material supplier's safety data sheets were used as key data sources in the preparation of this safety data sheet.

N/D: No available data

N/A: Not applicable

MEL: Maximum exposure limit issued by the UK Health and Safety Executive in Guidance Note EH40/95

OES: Occupational Exposure Standard issued by the UK Health and Safety Executive in Guidance Note EH40/95