

SAFETY DATA SHEET

B&W Polycon A Technical Developer

1) IDENTIFICATION

Champion Product Code: 180106

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2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A two part X-Ray and monochrome photographic developer.
The following components contribute to hazard:

<u>Solution 1</u>	CAS NO.	%W/W
Potassium Hydroxide	1310-58-3	2-5
Hydroquinone	123-31-9	5-10
<u>Solution 2</u>		
Butyrolactone	96-48-0	60-70
Lactic Acid	50-21-5	20-30
1-Phenyl-3-pyrazolidone	92-43-3	5-10

3) HAZARDS IDENTIFICATION

Human Health Hazards:

Solution 1: Corrosive - causes burns. Harmful. Possible risk of irreversible effects. May cause sensitisation by skin contact.

Limited evidence of a carcinogenic effect

Solution 2: Harmful if swallowed; irritating to eyes and skin.

Environmental Hazards:

Will cause oxygen depletion and increased pH in the aquatic environment.

Safety Hazards:

Contact with photographic fixer will liberate irritant gas from the fixer, (ammonia).

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4) FIRST AID MEASURES

Eyes:

Flush immediately with eye-wash solution or clean water for several minutes keeping the eye open. Obtain medical attention.

Inhalation:

Inhalation of the liquid is unlikely to occur. The product presents no vapour hazard under normal conditions of use.

Skin Contact:

Remove any contaminated clothing and wash skin immediately and thoroughly with water followed by a neutral cleanser and water. Wash contaminated clothing before re-use. Obtain medical attention if irritation or inflammation occurs.

Ingestion:

Rinse mouth with water and drink two glasses of water. Do not induce vomiting. Obtain immediate medical attention.

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

5) FIRE-FIGHTING MEASURES

Not classified as flammable. If involved in a major fire, hazardous combustion product may include Sulphur Dioxide and oxides of Nitrogen.

Extinguishing Media:

Suitable for the surrounding fire.

Protective Equipment:

Self-contained respiratory equipment.

6) ACCIDENTAL RELEASE MEASURES

Personal Protection:

When dealing with spillages of concentrates or working strength solution, use the personal protection specified in Section 8. Ensure spill area is well ventilated.

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Environmental Precautions:

Prevent spillages from entering drain by absorption into inert absorbent material and transfer to a container for disposal by a licensed waste contractor.

Cleaning Up:

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

7) HANDLING AND STORAGE**Handling:**

When handling the product concentrates, avoid contact with eyes, skin and clothing. Use in a well ventilated area.

Storage:

Store in a dry, well ventilated area at a moderate temperature. Store away from incompatible substances, (see Section 10).

8) EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Standards:**

None relevant.

Engineering Measures:

Ensure good ventilation of the whole working area.

Respiratory Protection:

Should not be required.

Skin Protection:

Wear impervious gloves when handling concentrates. Avoid excessive contact with the working strength solution. The regular use of a neutral (non-alkaline), skin cleanser is recommended.

Eye Protection:

Wear safety glasses with side-shields as the minimum level of protection. Provide eye-wash bottles in the immediate working area.

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9) PHYSICAL AND CHEMICAL PROPERTIES

	<u>Solution 1</u>	<u>Solution 2</u>
Appearance: liquid	Very pale yellow	Deep yellow liquid
Odour:	Very slight	Slight, sweetish
pH at 20°C:	11.75	1.75
Specific Gravity at 20C:	1.24	1.155
Freezing Point:	-5°C	< -10°C
Flammability:	Not flammable	Not flammable
Solubility in water:	Completely soluble	Completely soluble

10) STABILITY AND REACTIVITY**Stability:**

Stable under recommended storage conditions.

Materials to avoid:

Avoid contact with strong acids and oxidising agents. Avoid contact with photographic fixers, (ammonia may be produced).

Hazardous Decomposition Products:

None under normal conditions of use.

11) TOXICOLOGICAL INFORMATION**Eye Contact:**Solution 1

Likely to cause burns and possible corneal damage (due to presence of caustic alkali and hydroquinone) unless first-aid irrigation has been prompt.

Solution 2

Irritation, expected to be transient.

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Skin Contact:

Solution 1

May cause burns and sensitisation by skin contact

Solution 2

Prolonged or repeated contact may cause irritation.

Ingestion:

Solution 1

Ingestion of the liquid concentrate is likely to cause burns to the mouth and gastrointestinal tract. Expected to be of moderate systemic toxicity.

Solution 2

Harmful if swallowed.

Inhalation:

Solutions 1 and 2

No vapour hazard exists under normal conditions of use.

12) ECOLOGICAL INFORMATION

The following summary of expected environmental effects is based on known data for the principal ingredients and on the physico-chemical properties of the preparation.

A moderate to high biochemical oxygen demand will result in short term oxygen depletion in the aquatic environment. Additionally the developer has a high pH resulting in an increase in alkalinity.

These harmful effects are likely to be rapidly reduced by the effects of dilution and oxidation.

As a result of the above properties, precautions should be taken to prevent the release of the product concentrates or working strength solution into the environment, (see Section 13).

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13) DISPOSAL CONSIDERATIONS

Surplus Product and Working Strength Solution:

Disposal should be in accordance with current local and national legislation and only by a licensed waste contractor. Do not dispose of either concentrate or working strength solutions into drains, sewers, or waterways

Plastic Containers:

Rinse thoroughly with water and dispose as solid waste to land fill or re-cycle where possible.

Cardboard Cartons:

Re-cycle where possible or treat as solid waste.

14) TRANSPORT INFORMATION

Not classified as dangerous for transport by road or rail.

15) REGULATORY INFORMATION*

Solution 1 Contains potassium hydroxide and hydroquinone.

Hazard Symbol:	Xn	Harmful
Risk Phrases:	R34	Causes burns
	R68	Possible risk of irreversible effects
	R40	Limited evidence of a carcinogenic effect
	R43	May cause sensitisation by skin contact.
Safety Phrases:	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S36/37	Wear suitable protective clothing and eye/face
	/39	protection
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Solution 2 Contains Butyrolactone

Hazard Symbol:	Xn	Harmful
Risk Phrases:	R22	Harmful if swallowed
	R36	Irritating to skin
Safety Phrases:	S2	Keep out of reach of children
	S24	Avoid contact with skin.

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16) OTHER INFORMATION

The information contained in this Safety Data Sheet does not constitute the users own assessment of work place risk as required by other health and safety legislation, (eg. COSHH Regulations in the UK).

Document History

Prepared by: IF
Revision No: 3
Revision Date: Oct 2002

Reference Sources Include: CHIP Regs and related ACOPs.
UK HSE EH40, Occupational Exposure Limits
Croner's First Aid Guide
Raw Material MSDS

*Changes at this Revision

The information contained in this Safety Data Sheet is to our best present knowledge correct and complete and is given in good faith but without warranty.