

SAFETY DATA SHEET

1) IDENTIFICATION

Product Name: B&W Universal Hardener
Champion Product Code: 181102
Presentation: 6 x 500 ml
Supplier: CHAMPION PHOTOCHEMISTRY
INTERNATIONAL LIMITED
Hubert Road
Brentwood
Essex CM14 4JE
United Kingdom
Telephone No: + 44 (0) 1277 263646 (Technical Services)
Fax: + 44 (0) 1277 260832

2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A water based photographic hardener containing the following components contributing to hazard:

	CAS NO	%w/w
Aluminium Sulphate	7784-31-8	10-15
Sulphuric Acid	7664-93-9	5-10

3) HAZARDS IDENTIFICATION

Human Health

Hazards:

Irritant - irritating to eyes and skin.

Safety Hazards:

None of significance.

Environmental

Hazards:

Contains components which may be harmful to aquatic life.

4) FIRST AID MEASURES

Eyes:

Flush immediately with eye-wash solution or clean water for several minutes holding the eyelids apart. Obtain medical attention if irritation develops.

Inhalation:

Move to fresh air if vapour from the working strength solution causes breathing difficulties. Obtain medical attention if symptoms persist.

Skin Contact:

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

Ingestion:

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

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.

Environmental Precautions:

Prevent spillages from entering drain by absorption into inert absorbent material (eg. dry sand or earth) 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**Engineering Measures:**

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

Respiratory Protection:

Should not be required.

Skin Protection:

Wear impervious gloves when handling product 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.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless liquid
Odour:	None
pH at 20°C:	1.0
Weight per ml at 20°C:	1.21
Freezing Point:	-3°C
Flammability:	Not flammable
Solubility in water:	Completely soluble

10) STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Materials to avoid:

May be corrosive to some metals.

Hazardous Decomposition Products:

None under normal conditions of use.

11) TOXICOLOGICAL INFORMATION

Eye Contact:

Likely to cause irritation and reddening - not expected to be severe if irrigation has been prompt.

Skin Contact:

May cause irritation.

Ingestion:

Likely to cause irritation of the mouth and throat due to acidity. Unlikely to be acutely harmful. Long term effects of aluminium ingestion may occur.

Inhalation:

Inhalation of vapour from working strength solution may cause irritation; asthmatics or persons with known respiratory problems may experience breathing difficulties.

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.

The working strength solution and the concentrate contain components which are not expected to be readily biodegradable, and which are harmful to aquatic organisms.

Used working strength solutions will contain varying levels of silver from processing.

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).

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. Silver will be present at appreciable levels in used working strength solution and should be recovered before final disposal.

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

UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC NOS (contains Sulphuric Acid).

IMDG Classification: Class 8 Packing Group III Limited Quantity

ADR : RID Classification: 8; 17°(c) ADR/RID Limited Quantity

15) REGULATORY INFORMATION

Contains Sulphuric Acid.

Hazard Symbol:	Xi	Irritant
Risk Phrases:	R36/38	Irritating to eyes and skin
Safety Phrases:	S2	Keep out of reach of children
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37/39	Wear suitable gloves and eye/face protection

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: DS

Revision No: 5

Revision Date: Oct 2003

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

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.

Changes at this Revision: General update.