

# SAFETY DATA SHEET

## Grafix Graphic Arts Fixer

**CHAMPION**  
PHOTOCHEMISTRY

### 1) IDENTIFICATION

**Champion Product Code:**

160201

**Supplier:**

CHAMPION PHOTOCHEMISTRY Int Ltd  
Hubert Road, Brentwood. Essex CM14 4JE  
United Kingdom

**Telephone No:** + 44 (0) 1277 263646**Fax:** + 44 (0) 1277 260832

### 2) COMPOSITION/INFORMATION ON INGREDIENTS

**Product Description:**

A single part machine Graphic Arts Fixer concentrate containing the following principal components in aqueous solution:

	CAS NO.	% w/w
Ammonium Thiosulphate	7783-18-8	45-55
Ammonium Acetate	631-61-8	5-10
Sodium Bisulphite	7631-90-5	2-5
Boric Acid	10043-35-3	2-5

**Note:**

The product contains an odour masking compound (< 0.05%).

### 3) HAZARDS IDENTIFICATION

**Human Health Hazards:**

Not classified as hazardous. Small quantities of acetic acid vapour and sulphur dioxide may be produced. This may cause respiratory irritation in poorly ventilated areas.

**Safety Hazards:**Part A and Working Strength Solution

Contact with alkalis, including developer liberates irritant gas, (ammonia). Contact with acids liberates harmful gases (sulphur dioxide and hydrogen sulphide).

**Environmental Hazards:**

Will cause short term oxygen depletion if allowed to enter the aquatic environment.

### 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 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 and Hydrogen Sulphide.

**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

Small quantities of sulphur dioxide and acetic acid vapour may be liberated from the product and during preparation of the working strength solution.

**UK Occupational Exposure Limits:**

STEL (15 min) Sulphur Dioxide	13mg m <sup>-3</sup>
TWA (8 hour) Sulphur Dioxide	5mg m <sup>-3</sup>
STEL (15 min) Acetic Acid	37mg m <sup>-3</sup>
TWA (8 hour) Acetic Acid	25mg m <sup>-3</sup>

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**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:** Very pale yellow liquid  
**Odour:** Slightly acidic and sweet  
**pH at 20°C:** 5.0  
**Weight per ml at 20°C:** 1.305g  
**Freezing Point:** -9°C  
**Flammability:** Not flammable  
**Solubility in water:** 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 developers, (ammonia may be produced).

**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:**

May cause nausea and vomiting. Unlikely to be of high systemic toxicity.

**Inhalation:**

Inhalation of vapour from concentrates or 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.

A moderate biochemical oxygen demand will result in short term oxygen depletion in the aquatic environment.

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**

Not classified as hazardous for transport.

**15) REGULATORY INFORMATION**

No hazard warnings or symbols required.

**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

Reference Sources Include: CHIP 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:

New format