

SAFETY DATA SHEET

Naturecare FRC Developer / Bleach-Fix Cartridge

1) IDENTIFICATION

FRC Developer

Product Code: 140185

Supplier:

CHAMPION PHOTOCHEMISTRY INTERNATIONAL
LTD, HUBERT Rd, BRENTWOOD, ESSEX.
CM14 4JE
UNITED KINGDOM.

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2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A single part photographic colour print developer. The following components contribute to hazard.

	CAS NO	% w/w
p-Phenylenediamine derivative (CD3)	25646-71-3	10-15
Sodium Hydroxide	1310-73-2	0.5-2
Monoethylene Glycol	107-21-1	20-25

3) HAZARDS IDENTIFICATION

Human Health Hazards:

Irritating to eyes and skin. May cause allergic skin reaction.

Maybe be harmful if swallowed

Environmental Hazards:

Expected to be harmful to plant and animal organisms in 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 immediate medical attention.

Inhalation:

Inhalation of the liquids is unlikely to occur. No vapour hazard exists under normal conditions of use.

Skin Contact:

Remove any contaminated clothing. Wash skin thoroughly with cold water then with a neutral cleanser and water. Thoroughly wash contaminated clothing before re-use. Obtain medical attention if irritation develops.

Ingestion:

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

toxic gases could be produced. (Sulphur dioxide, NOx, oxides of phosphorous, phosphine - PH₃).

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 product concentrates, avoid contact with eyes, skin and clothing and avoid inhaling vapour. Use in a well ventilated area. Avoid contact with the working strength solution and avoid inhaling vapour. After handling, the routine use of a neutral, (non-alkaline), hand cleanser will minimise the risk of adverse skin reaction.

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

UK Occupational Exposure Standards:

Monoethylene Glycol

STEL (15 min) 10mg m⁻³ (Particulate)

60mg m⁻³ (Vapour)

Engineering Measures:

Ensure good ventilation of the whole working area.

Respiratory Protection:

Should not be required.

Skin Protection:

Wear impervious gloves when handling concentrates and to prevent contact with the working strength solution.

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Eye Protection:

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

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

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale Orange Liquid

Odour: Slight

pH at 20°C: 12.5

Weight per ml at 20°C : 1.16

Freezing Point: No data

Flammability: Not flammable

Solubility in water: Completely soluble

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 or on to soil.

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 regulated.

10) STABILITY AND REACTIVITY
Stability:

Stable under recommended storage conditions.

Materials to avoid:

Avoid contact with strong acids and oxidising agents. Avoid contact with bleach-fix, (Ammonia will be liberated).

Hazardous Decomposition Products:

None under normal conditions of use.

15) REGULATORY INFORMATION

Contains a p-Phenylenediamine derivative (CD3)

Hazard Symbol:

Xi Irritant

Risk Phrases:

R36/38 : Irritating to Eyes & Skin

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 gloves.

11) TOXICOLOGICAL INFORMATION
Eye Contact:

Likely to cause irritation.

Skin Contact:

May cause irritation and possible allergic skin reaction.

Ingestion:

Harmful if swallowed. May cause irritation of the gastro-intestinal tract.

Inhalation:

No vapour hazard exists under normal conditions of use.

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: 0

Revision Date: 18.01.01

Reference Sources Include: CHIP Regs, 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.

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 high pH, developing agent content and moderately high biochemical oxygen demand, will result in increased alkalinity and in toxicity to plant and animal organisms in the aquatic environment. These effects are rapidly reduced by the effects of dilution, oxidation and photodecomposition and the product has little or no potential to persist in a harmful form.

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1) IDENTIFICATION

FRC Bleach - Fix

2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A single part photographic bleach fix containing the following principal components in aqueous solution:

Ethylenediaminetetraacetic Acid,
Ammonium Ferric Complex
Ammonium Thiosulphate
Ammonium Bisulphite

3) HAZARDS IDENTIFICATION

Human Health Hazards:

Not classified as hazardous.

Safety Hazards:

Contact with photographic 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:

Inhalation of the product is not likely to occur. In the event of inhalation of vapour move to fresh air and obtain medical attention if symptoms occur.

Skin Contact:

Remove any contaminated clothing and wash skin thoroughly with water followed by a neutral cleanser and water. 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, Ammonia 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.

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

Traces of Sulphur Dioxide gas may be liberated from the product and during preparation of the working strength solution.

UK Occupational Exposure Standards:

STEL (15 min) Sulphur Dioxide	13mg m ⁻³
TWA (8 hour) Sulphur Dioxide	5mg m ⁻³

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.

9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Deep reddish-brown liquid

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Odour: Very slight

pH at 20°C: 6.0

Weight per ml at 20C: 1.29

Freezing Point: No data

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 photographic developers, (ammonia may be produced).

Hazardous Decomposition Products:

None under normal conditions of use.

11) TOXICOLOGICAL INFORMATION

Eye Contact:

May cause irritation, not expected to persist if first aid irrigation has been prompt.

Skin Contact:

May cause irritation on prolonged or repeated contact.

Ingestion:

Expected to be of low systemic toxicity but likely to cause gastro-intestinal irritation and nausea.

Inhalation:

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 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 dangerous for transport.

15) REGULATORY INFORMATION

Not classified at hazardous, no labelling requirements.

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: 0

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

Changes at this Revision: New Product.

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