

SAFETY DATA SHEET

1) IDENTIFICATION

Product Name: MYDOPRINT VR Developer Replenisher

Champion Product Code: 140133, 140134, 140135

Supplier: CHAMPION PHOTOCHEMISTRY
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2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

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

	CAS NO	%w/w
<u>Part B</u>		
p-Phenylenediamine derivative (CD3)	25646-71-3	30-35
Potassium Bisulphite (Sulphur Dioxide)	7773-03-7 (7446-09-5)	1-5 (<1)
<u>Part C</u>		
Potassium Carbonate	584-08-7	35-40
Potassium Hydroxide	1310-58-3	2-5
Substituted Phosphonate	2809-21-4	1-5

The product also contains:

<u>Part A</u>		
Polyethylene Glycol	25322-68-3	50-55
Diethylene Glycol	111-46-6	25-30
Diethylhydroxylamine	3710-84-7	5-10

3) HAZARDS IDENTIFICATION

Human Health

Hazards:

Part B Irritating to eyes and skin. May cause allergic skin reaction. The evolution of sulphur dioxide may cause respiratory irritation especially to asthmatics or persons with existing respiratory problems.

Part C Corrosive - causes burns.

Environmental

Hazards:

May 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.

Parts A and B: Obtain medical attention if irritation develops.

Part C: Obtain immediate medical attention.

Inhalation:

Inhalation of the liquids is unlikely to occur. The part B component produces irritant sulphur dioxide fumes, in the event of inhalation move to fresh air. Asthmatics or persons with existing respiratory problems should receive immediate medical attention.

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:

Part A: Rinse mouth with water and drink about two glasses of water. Do not induce vomiting. Seek medical attention.

Part B: Rinse mouth with water and drink about two glasses of water. Obtain immediate medical attention. Do not induce vomiting except under medical supervision.

Part C: Rinse mouth with water and drink about 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 toxic gases could be produced. (Sulphur dioxide, NO_x, 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

Sulphur dioxide gas may be liberated from the Part B concentrate.

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 and to prevent contact with the working strength solution.

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

	<u>Part A</u>	<u>Part B</u>	<u>Part C</u>
Appearance:	Pale yellow liquid	Pale yellow liquid	Pale yellow liquid
Odour:	Slight amine	Sulphur dioxide	None
pH at 20°C:	10.0	1.0	>13.5
Weight per ml at 20°C	1.09	1.17	1.43
Freezing Point:	<0°C	<0°C	5°C
Flammability:	Not flammable	Not flammable	Not flammable
Solubility in water:	Completely soluble	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 of the working strength solution and Part C concentrate with bleach-fix, (Ammonia will be liberated). The Part C concentrate may corrode some metals.

Hazardous Decomposition Products:

None under normal conditions of use.

11) TOXICOLOGICAL INFORMATION

Eye Contact:

Parts A and B: Likely to cause irritation.

Part C: Will cause inflammation and possible burns. Effects may be severe if irrigation has not been prompt (corrosive alkali).

Skin Contact:

Part A: May cause irritation.

Part B: May cause irritation and possible allergic skin reaction.

Part C: May cause burns - possibly severe on prolonged or repeated contact.

Ingestion:

Part A: Expected to be low systemic toxicity, but may cause irritation of the gastro-intestinal tract.

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

Part C: Likely to cause burns of the mouth and gastro-intestinal tract.

Inhalation:

Parts A & C: No vapour hazard exists under normal conditions of use.

Part B: Will cause irritation due to evolution of sulphur dioxide. May cause acute breathing difficulties to asthmatics or persons with existing respiratory problems.

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.

Working Strength Solution

The high pH and the developing agent content 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. The solution has a low biochemical oxygen demand.

Part A

This material is moderately alkaline and this property may cause adverse environmental effects.

Part B

This material is acidic and contains material that is harmful to plant and animal life. These properties may cause adverse environmental effects.

Part C

This material is strongly alkaline and this property may cause adverse environmental effects.

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).

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

Classified as Dangerous for Carriage,
UN 3082 Environmentally Hazardous, Liquid (NOS)
[Contains paraphenylenediamine derivative (CD3)] 8, PG:III

15) REGULATORY INFORMATION

Part B: Contains a p-Phenylenediamine derivative (CD3)

Hazard Symbol:	Xn	Harmful
Risk Phrases:	R22 R43	Harmful if swallowed May cause sensitisation by skin contact.
Safety Phrases:	S2 S36/37	Keep out of reach of children Wear suitable protective clothing and gloves.

Part C: Contains Potassium Hydroxide and Potassium Carbonate.

Hazard Symbol:	C	Corrosive.
Risk Phrases:	R34	Causes burns.
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.
	S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

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: 1

Revision Date: July 2004

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.

Changes at this Revision: Transport classification corrected – Section 10