

SAFETY DATA SHEET



Mydoneg Developer / Replenisher

1) IDENTIFICATION

Product Code: 140156, 140110

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2) COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:

A three part photographic colour negative developer containing the following components which contribute to hazard:-

	CAS NO	%w/w	Classification
<u>Part A</u>			
Potassium Carbonate	584-08-7	30-35	Xi, R36/38
<u>Part B</u>			
Hydroxylamine Sulphate	10039-54-0	20-25	Xn:R36/38-43-48/22
<u>Part C</u>			
p-Phenylenediamine derivative (CD4)	25646-77-9	45-50	T/N: R25-43-48/22-50/53
Sodium Bisulphite (Sulphur Dioxide)	7681-57-4 (7446-09-5)	<2 (<1)	

3) HAZARDS IDENTIFICATION

Human Health Hazards:

Part A Irritating to eyes and skin.

Part B Irritating to eyes and skin. May cause allergic skin reaction (sensitisation).

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Part C Toxic if swallowed, danger of serious damage to health by prolonged exposure if swallowed. May cause allergic skin reaction. The evolution of sulphur dioxide may cause respiratory irritation especially to asthmatics or persons with existing respiratory problems.

Environmental Hazards:

Part C and Working Strength Solution

May cause long term adverse effects 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 medical attention.

Inhalation:

Inhalation of the product is unlikely to occur. In the event of inhalation of vapour, move to fresh air and obtain medical attention if symptoms persist. Asthmatics or persons with known 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 plenty of water. Do not induce vomiting. Obtain medical attention.

Part B: Rinse mouth with water and drink plenty of water. Obtain medical attention. Do not induce vomiting.

Part C: Rinse mouth with water and drink plenty of water. Obtain immediate medical attention. Induce vomiting only as directed by medical personnel.

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

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5) FIRE-FIGHTING MEASURES

Not classified as flammable. If involved in a major fire toxic gases could be produced. (Sulphur dioxide, NOx, ammonia).

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).

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8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Sulphur dioxide gas may be liberated from the Part C 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:	Very pale yellow liquid	Colourless liquid	Deep orange-brown liquid
Odour:	None	None	Of sulphur dioxide
pH at 20°C:	11.4	3.5	2.0
Weight per ml at 20°C:	1.400	1.16	1.19
Freezing Point:	-17°C	6°C	9°C
Flammability:	Not flammable	Not flammable	Not flammable
Solubility in water:	Completely soluble	Completely soluble	Completely soluble

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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 A concentrate with bleach-fix, (ammonia will be liberated from the bleach-fix).

Hazardous Decomposition Products:

None under normal conditions of use.

11) TOXICOLOGICAL INFORMATION

Eye Contact:

Parts A, B & C

Likely to cause irritation and inflammation. Not expected to persist if first-aid irrigation has been prompt.

Skin Contact:

Part A: May cause irritation and inflammation.

Parts B & C: May cause allergic reaction (sensitisation).

Ingestion:

Part A: Likely to cause irritation of the gastro-intestinal tract.

Part B: Harmful if swallowed. Reacts with red blood cells to form methemoglobin - symptoms include cyanosis (blue skin), convulsions and coma.

Part C: Toxic if swallowed, danger of serious damage to health by prolonged exposure if swallowed.

Inhalation:

Part C: Will cause irritation and tightness of chest due to evolution of sulphur dioxide. May cause acute breathing difficulties to asthmatics or persons with known respiratory problems.

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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. The product has moderate potential to persist in a harmful form. The solution has a low biochemical oxygen demand.

Part A

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

Part C

This material is acidic and contains material that is harmful to plant and animal life. May cause long term adverse effects in the aquatic environment.

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.

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.

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14) TRANSPORT INFORMATION

UN No: 2810

Shipping Name: Toxic Liquid Organic NOS
(contains 4-(N-ethyl-N-2 hydroxyethyl)-
2-methylphenylenediamine sulphate (CD4))
Limited quantity

Class: 6.1

Packing Group: III

15) REGULATORY INFORMATION

Part A: Contains Potassium Carbonate

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.

Part B: Contains Hydroxylamine Sulphate

Hazard Symbol: Xn Harmful

Risk Phrases: R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.
R43 May cause Sensitisation by Skin Contact.
R48/22 Harmful: Danger of serious damage to health by prolonged exposure if swallowed.

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.

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Part C: Contains a p-Phenylenedamine derivative (CD4)

Hazard Symbol:	T	Toxic
Risk Phrases:	R25	Toxic if swallowed.
	R43	May cause sensitisation by skin contact.
	R48/22	Harmful: Danger of serious damage to health by prolonged exposure if swallowed.
	R50/53	Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
Safety Phrases:	S2	Keep out of reach of children
	S24/25	Avoid contact with skin or eyes.
	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: 3
Revision Date: 22.11.03

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: General updating in line with CHIP Regulations 2002/3

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.