

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Supplier: MacDermid Autotype Limited Telephone: 01235 771111
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Oxon OX12 7BZ, England

Product Name: **WR HARDENER B**

Product Description: Stencil hardening agent for screen print photostencils.

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

NAMES	CONCENTRATION	SYMBOL	R/S-PHRASES	REGISTRATION NOS
Ethane 1-2-Dione	<10%	Xn	R20,36/38,40,43 S36/37	CAS NR: 107-22-2 EC No: 203-474-900-7

3. HAZARD IDENTIFICATION

Irritating to eyes and skin.
Possible risk of irreversible effects. May cause sensitisation by skin contact.

4. FIRST AID MEASURES**Inhalation:**

Remove to fresh air. Get medical attention.

Ingestion:

Wash out mouth. Dilute with water and get immediate medical attention.

Eye Contact:

Irrigate thoroughly with clean water for 15 minutes. Get medical attention

Skin Contact:

Wash thoroughly with soap and water. Apply skin cream.

Further Medical Treatment:

Consult Physician.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Colour:	Colourless.
Odour:	None.	pH:	5-7
Boiling Point:	104°C.	Melting Point	>0°C
Flash Point:	N/A	Flammability:	N/A
Autoflammability:	285°C	Explosive Limit:	N/A
Oxidising Properties:	None.	Vapour Pressure:	24 m.bar (20°C)
Relative Density:	1.06/cm ³	Solubility in Water:	Complete.
Viscosity:	<0.9cp/25°C		

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid:

None.

Materials to Avoid:

Oxidisers, Alkali.

Hazardous Decomposition Products:

CO on Combustion

11. TOXICOLOGICAL INFORMATION**Inhalation:**

Irritating.

Ethane 1-2-Dione

LC50=2.4mg/l/4H(aerosol.i.h.l.rat).

Ingestion:

Irritation.

Ethane 1-2-Dione

LD50=7070mg/Kg oral rat.

Skin Contact:

Irritation.

Eye Contact:

Irritation.

Long Term Exposure:

The toxicological properties of this product have not been fully evaluated.

The substance exhibits mutagenic properties in various test systems (microorganisms, cell cultures, mammals).

12. ECOLOGICAL INFORMATION

Dilute solution of surfactants and polyfunctional aldehydes. Acceptable for foul waste but protect natural water courses. Does not contain any EC Black/Grey listed materials, heavy metals or volatile organic solvents. May be considered as non-ecotoxic or bioaccumulable.

13. DISPOSAL CONSIDERATIONS

By authorised chemical disposal.

14. TRANSPORTATION INFORMATION

This product is not hazardous for shipment.

15. REGULATORY INFORMATION**Classification:****Contains:**

Ethane 1-2-Dione <10%

Harmful

Canadian Class D2A

R-Phrases:

R40 Limited evidence of carcinogenic effect.

R43: May cause sensitisation by skin contact.

S-Phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin wash immediately with plenty of water.

S36/37: Wear suitable protective clothing and gloves.

16. OTHER INFORMATION**Read the instructions carefully before using**

N/A - Not Applicable

The information and recommendations contained in the Company's literature or elsewhere are based on knowledge at the time of printing and are believed to be accurate. Whilst such details are printed in good faith, they are intended to be a guide only and shall not bind the Company. Due to constant development, customers are urged to obtain up-to-date technical information from representatives of the Company and not to rely exclusively on printed material. Customers are reminded of the importance of obtaining and complying with instructions for the handling and use of chemicals and materials supplied as the Company cannot accept responsibility for any loss or injury caused through non-compliance.

Date of Printing

24/08/2005