

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Supplier: Autotype International Limited
Grove Road, Wantage, Oxon OX12 7BZ
England

Telephone: 01235 771111
Emergency telephone: 01235 770063

Product Name: **WR HARDENER A**

Product Description: Dilute acid solution.

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

NAMES	CONCENTRATION	SYMBOL	R/S-PHRASES	REGISTRATION NOS
Hydrochloric Acid.	<5%	Xi	R22,R36/37/38 S26,S45	CAS NR: 764-70-10 EC No: 231-595-7

3. HAZARD IDENTIFICATION

May be irritating to eyes and skin.

4. FIRST AID MEASURES

Inhalation:

Remove to Fresh air.

Ingestion:

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

Eye Contact:

Irrigate with water for 15 minutes. Get medical aid.

Skin Contact:

Wash thoroughly with soap and water. Apply skin cream.

Further Medical Treatment:

Seek medical advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHER MEDIA Suitable: Not applicable. Not Suitable: Not applicable.

Exposure Hazards:

HCL gas evolved if other combustibles burning.

Protective Equipment:

Use breathing apparatus, gloves, goggles.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

PVC/Rubber Gloves, goggles.

Enviromental Precautions:

Prevent from contaminating water courses.

Methods for Cleaning:

Neutralise with soda lime and flush to foul waste.

7. HANDLING AND STORAGE

Store in dry, cool conditions, in sealed original containers.

8. EXPOSURE CONTROLS/PERSONNEL PROTECTION**Exposure Controls:**

N/A General good ventilation.

Respiratory Equipment:

Not required in normal use.

Hand Protection:

Rubber/PVC gloves.

Eye Protection:

Goggles.

Other Protection:

Plastic apron/waterproof overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.	Colour:	Colourless.
Odour:	None.	pH:	1-2
Boiling Point:	100°C.	Melting Point	As water.
Flash Point:	N/A	Flammability:	N/A
Autoflammability:	N/A	Explosive Limit:	N/A
Oxidising Properties:	None.	Vapour Pressure:	As water.
Relative Density:	1.0/cm ³	Solubility in Water:	Complete.
Viscosity:	0.9cp/25°C		

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid:
None.

Materials to Avoid:

Alkalis, reactive chemicals

Hazardous Decomposition Products:

Will liberate HCL at high temperatures.

11. TOXICOLOGICAL INFORMATION**Inhalation:**

May cause irritation.

Hydrochloric Acid.

LC50=3124ppm/1H ihl rat.

Ingestion:

Irritation.

Hydrochloric Acid.

LD50=900mg/Kg oral rabbit.

Skin Contact:

Irritation.

Eye Contact:

Severe irritation.

Long Term Exposure:

No data.

12. ECOLOGICAL INFORMATION

The product contains dilute hydrochloric acid and surfactants and is acceptable for foul waste systems. Do not pollute natural water courses. It contains no EC Black/Grey listed materials, heavy metals or volatile organic solvents and may be considered as non-ecotoxic.

13. DISPOSAL CONSIDERATIONS

Flush to waste with water.

14. TRANSPORTATION INFORMATION

This product is not hazardous for shipment.

15. REGULATORY INFORMATION**Classification:**

Not classified.

Contains:**R-Phrases:****S-Phrases:**

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

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

12/3/2003