



MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: HARDENER WR

Previous Issue: October 6, 2009

Date Prepared: October 6, 2009

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **HARDENER WR**
 Company: **ULANO® CORPORATION**
 110 Third Avenue
 Brooklyn, NY 11217
 Phone: 718-237-4700
 Fax: 718-802-1119
 Emergency contact: 1-800-424-9300 (CHEMTREC)

MSDS prepared by: Fred Widman

Recommended use: Stencil hardener for screenprinting screens

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is not classified as hazardous according to 29CFR 1910-1200.

Appearance / Odor: liquid / mild odor

Potential Health Effects: See Section 11 for more information

Potential Health Effects Eyes

This product may be irritating to the eyes.

Potential Health Effects: Skin

Repeated exposure may irritation to skin

Potential Health Effects: Ingestion

Ingestion of this product may be irritating to the digestive system.

Potential Health Effects: Inhalation

No known effect

Target Organs: not known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials

Hazardous components:

EINECS-No	Name	Hazard	%content
CAS-No.	R-phrases		

n.a

Additional information:

For full text of risk phrases see Section 16.

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4. FIRST AID MEASURES**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash clothing before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammable: no	Means of extinction: treat surrounding fire
	Unsuitable extinguishing media: Hard water stream
Flash point: n.a	Upper flammable limit: n.a
Explosion data impact: n.a	Lower flammable limit: n.a
Explosion data static: n.a	
Hazardous combustion products: typical carbon oxygen compounds.	
Fire fighters should wear SCBA for fighting fires in enclosed areas.	
Autoignition temp: n.a	

6. ACCIDENTAL RELEASE MEASURES

Do not empty large quantities directly into drains. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated place. Ensure adequate ventilation. Avoid contact with skin and eyes.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA TWA	ACGIH TWA
No exposure limits established for ingredients			

Engineering controls

General- not required
Local exhaust- recommended
Other- none

Personal Protection

Gloves- recommended
Respirator- not required
Eye- protective goggles recommended

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Protective footwear- not required
Protective clothing- not required
Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Color: depending on coloration
Odor: odorless
Flash point: n.a
Ignition temperature: n.a
Density: ~1.01 g/cm³
Viscosity: unkown
Explosion limits: n.a
Boiling point: ~212°F (100° C)
Vapour density: >1(air=1)
Vapour pressure: n.a
Freezing point: not known
pH: 8.85
Coefficient of water/ oil distribution: miscible in water

Volatile Organic Compounds: less than 0.1%

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions
(see Section 7).
Store as a non-hazardous liquid
INCOMPATIBILITY: Strong oxidizers

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:**General information:**

Effects of acute exposure:
Repeated or prolonged contact causes local irritation of skin and mucous membranes, particularly the eyes.
Irritancy of product- possible
Skin sensitization- none reported
Respiratory sensitization- none known
Carcinogenicity- no
IARC- no
ACGIH - no
Reproductive toxicity - none known
Teratogenicity - none known
Embryotoxicity - none known
Mutagenicity - none known
Name of synergistic products/effects- none known

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12. ECOLOGICAL INFORMATION

Do not empty large quantities into drains or release into open water.
Do not store at public waste disposal sites.

13. WASTE DISPOSAL INFORMATION

Dispose of as a non-hazardous aqueous waste
Empty container: scrap recycling or re-conditioning
Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT:	Class: Not regulated
	UN: n.a
Packaging group:	n.a
IMDG:	Class: not regulated
	EMS: n.a
	UN: n.a
Marine pollutant:	No
Packaging group:	n.a

15. REGULATORY INFORMATION

Global Inventories (components):

TSCA:	United States -	included
DSL:	Canada -	included
ENCS:	Japan -	included
EINECS:	Europe -	included

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of information required by the CPR, and it is not classified as a hazardous material.

Labeling

n.a

R-phrases:

n.a

S-phrases:

n.a

Special labeling:

n.a

National Regulation for Germany:

Water pollution class: 1

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16. OTHER INFORMATION

HMIS: Health 1, Flammability 0, Reactivity 0

Text of risk phrases mentioned in Section 2:

n.a

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.

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