



MATERIAL SAFETY DATA SHEET

(In accordance with ANSI Z400.1-2004)

PRODUCT NAME: 925WR & 995WR DIRECT EMULSION

Previous Issue: 1/31/2008

Date Prepared: August 18, 2008

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **925WR & 995WR DIRECT EMULSION**
 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: Manufacture of stencils for screenprinting

2. HAZARD IDENTIFICATION OF THE PREPARATION

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

Appearance / Odor: viscous 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 hazardous materials with non-hazardous 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:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention. 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

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Eye- protective goggles recommended
Protective footwear- not required
Protective clothing- not required
Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: viscous liquid
Color: purple
Odor: mild
Flash point: n.a
Ignition temperature: n.a
Density: ~1.1 g/cm³
Viscosity: ~7,500 cps @ 20°C
Explosion limits: n.a
Boiling point: ~212°F (100° C)
Vapour density: >1(air=1)
Vapour pressure: 25hPa @ 25°C
Freezing point: not known
pH: 5.0-5.6
Coefficient of water/ oil distribution: not known
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 metal 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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MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: DIAZO SENSITIZER SYRUP (DIAZO-D&E)

Previous Issue: 1/31/2008

Date Prepared: August 18, 2008

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **DIAZO SENSITIZER SYRUP (DIAZO-D & E)**
 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: Sensitizer for emulsions for screenprinting screens

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is classified as Corrosive liquid according to 29CFR 1910-1200.

Appearance / Odor: liquid / mild odor

Potential Health Effects: Eyes

Corrosive! This product causes irritation to eyes. Greater exposure can cause burns that may result in permanent impairment of vision and blindness.

Potential Health Effects: Skin

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Potential Health Effects: Ingestion

Swallowing can cause severe burns of the mouth, throat and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea and a fall in blood pressure.

Potential Health Effects: Inhalation

Signs of respiratory tract irritation (such as nasal discharge and difficulty breathing) may occur after exposure to aerosol or high vapor concentrations.

C	Corrosive
34	Causes burns
36/37/38	Irritating to eyes, respiratory system and skin
43	May cause sensitization by skin contact

Target Organs: skin, eyes, and mucous membranes

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:

PRODUCT NAME: **DIAZO SENSITIZER SYRUP**

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EINECS-No CAS-No.	Name R-phrases	Hazard	%content
231-633-2 7664-38-2	Phosphoric Acid 34	C	50.0-75.0%
200-001-8 30525-89-4	Paraformaldehyde 11-20/22-36/37/38-43-45	F, Xn	5.0-10.0%

Additional information:

For full text of risk phrases see Section 16.

4. FIRST AID MEASURES

After skin contact:

CORROSIVE - Causes severe irritation and burns. Note that irritation may follow an initial latency. The latency may vary as much as hours for dilute solutions to minutes for more concentrated solutions. Prolonged contact can cause tissue destruction and permanent skin damage. Dust or mist from solutions can cause irritant dermatitis. Repeated exposure may cause inflammation of the skin.

After eye contact:

CORROSIVE – Causes severe irritation and burns. Small amounts may cause: permanent eye damage, blindness, corneal damage. Mists may cause irritation. High mist concentrations may cause tissue destruction. Effects may vary depending on length of exposure, solution concentration and first aid measures.

After ingestion:

CORROSIVE – Causes severe irritation and burns. May cause damage to the: mouth, throat, stomach, gastrointestinal tract. Ingestion can cause severe burns and complete tissue perforation of the mucous membranes of the mouth, throat and stomach. May cause: abdominal pain nausea, vomiting, diarrhea, bleeding, fall in blood pressure, shock, collapse and gastrointestinal ulceration. Damage may appear days after exposure.

After Inhalation:

CORROSIVE – Causes severe irritation and burns. Dusts or mists may irritate: nose, mouth, throat and respiratory tract. Dusts or mists may cause damage to the: upper respiratory tract and lungs. May cause coughing, sneezing, running nose, sore throat, shortness of breath, wheezing, tightness in the chest, chest pain, choking, impaired lung function, pneumonitis and pulmonary edema.

Note to Physicians: Treat as exposure to corrosives

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	

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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
1776-38-2	Phosphoric Acid	1 mg/m ³	1 mg/m ³ , 3 mg/m ³ STEL
30525-89-4	Paraformaldehyde	Not listed	Not listed

Engineering controls

General- not required
 Local exhaust- recommended
 Other- none

Personal Protection

Gloves- Acid impermeable recommended
 Respirator- not required unless mists or sprays are present
 Eye- protective goggles recommended
 Protective footwear- not required
 Protective clothing- protective apron
 Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: viscous liquid
 Color: Dark Brown
 Odor: mild
 Flash point: n.a
 Ignition temperature: n.a
 Density: ~1.5 g/cm³
 Viscosity: paste
 Explosion limits: n.a
 Decomposition temperature 117°C
 Vapour density: >1 (air=1)
 Vapour pressure: not known
 Freezing point: not known
 pH: ~1
 Coefficient of water/ oil distribution: not known
 Volatile Organic Compounds: less than 0.1%

PRODUCT NAME: **DIAZO SENSITIZER SYRUP**

Date Prepared: **August 18, 2008**

10. STABILITY AND REACTIVITY

(see Section 7).

Store as a corrosive liquid

INCOMPATIBILITY: Strong oxidizers, acids

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
Phosphoric Acid	7664-38-2	1530 mg/kg, oral, rat	>850 mg/m ³ /1H, inhalation, rat
Paraformaldehyde	30525-89-4	800 mg/kg, oral, rat	1070 mg/m ³ /4H, inhalation, rat

General information:

Effects of acute exposure:

Repeated or prolonged contact causes burns of the skin mucous membranes and particularly the eyes.

Irritancy of product- Corrosive

Skin sensitization- Corrosive

Respiratory sensitization- Corrosive

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

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 corrosive aqueous waste

Empty container: scrap metal recycling or re-conditioning

Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT/IATA: Class: 8

UN: 1760

Corrosive liquid, nos

(phosphoric acid)

Packaging group: III

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IMDG: Class: 8
 UN: 1760
 Corrosive liquid, nos
 (phosphoric acid)
 Marine pollutant: no
 Packaging group: III

15. REGULATORY INFORMATION

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 classified as a code E hazardous material.

Labeling

C

R-phrases:

34 Causes burns
 36/37/38 Irritating to eyes, respiratory system and skin
 43 May cause sensitization by skin contact

S-phrases:

24/25 Avoid contact with skin and eyes
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 37/39 Wear suitable gloves and eye / face protection

Special labeling:

n.a

National Regulation for Germany:

Water pollution class: 2

Ingredient	TSCA	EC	--Canada--	
			DSL	NDSL
Phosphoric Acid (7664-38-2)	Yes	Yes	Yes	No
Paraformaldehyde (30525-89-4)	Yes	Yes	Yes	No

Ingredient	-SARA 302-		SARA 313	-RCRA-	CERCLA -	TSCA
	RQ	TPQ	List	RQ	261.33	8(d)
Phosphoric Acid	No	No	No	No	5,000	No
Paraformaldehyde	No	No	No	No	1,000	No

16. OTHER INFORMATION**HMIS: Health 3, Flammability 0, Reactivity 0**

Text of risk phrases mentioned in Section 2:

PRODUCT NAME: DIAZO SENSITIZER SYRUP**Date Prepared: August 18, 2008**

C	Corrosive
34	Causes burns
36/37/38	Irritating to eyes, respiratory system and skin
43	May cause sensitization by skin contact

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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