



# MATERIAL SAFETY DATA SHEET

(In accordance with ANSI Z400.1-2004)

**PRODUCT NAME: TZ & TZCL DIRECT EMULSION**

**Previous Issue: July 1, 2004**

**Date Prepared: March 16, 2009**

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **TZ & TZCL 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.

PRODUCT NAME: **TZ / TZCL DIRECT EMULSION**Date Prepared: **March 16, 2009****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

**PRODUCT NAME: TZ / TZCL DIRECT EMULSION****Date Prepared: March 16, 2009**

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

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Form: viscous liquid  
Color: blue or white  
Odor: mild  
Flash point: n.a  
Ignition temperature: n.a  
Density: ~1.1 g/cm<sup>3</sup>  
Viscosity: ~9,000 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: 4.4-5.0  
Coefficient of water/ oil distribution: not known

**Volatile Organic Compounds: less than 0.1%**

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**10. STABILITY AND REACTIVITY**

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Stable under recommended storage and handling conditions  
(see Section 7).

Store as a non-hazardous liquid

INCOMPATIBILITY: Strong oxidizers

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**11. TOXICOLOGICAL INFORMATION**

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**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

PRODUCT NAME: TZ / TZCL DIRECT EMULSION

Date Prepared: March 16, 2009

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**12. ECOLOGICAL INFORMATION**

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

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**13. WASTE DISPOSAL INFORMATION**

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

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**14. TRANSPORT INFORMATION**

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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

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**15. REGULATORY INFORMATION**

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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

PRODUCT NAME: **TZ / TZCL DIRECT EMULSION**Date Prepared: **March 26, 2009**

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**16. OTHER INFORMATION**

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**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-C SENSITIZING POWDER**

**Previous Issue: 1/31/2008**

**Date Prepared: August 14, 2008**

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **DIAZO-C SENSITIZING POWDER**  
 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: Sensitizing powder for stencil emulsions for screenprinting

## 2. HAZARD IDENTIFICATION OF THE PREPARATION

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

Appearance / Odor: powder / no 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.

PRODUCT NAME:  **DIAZO-C SENSITIZING POWDER**

Date Prepared:  **August 14, 2008**

#### 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. 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. 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

This material is an organic powder. Care must be taken to avoid dust produced fire or explosion.

#### 6. ACCIDENTAL RELEASE MEASURES

Do not empty large quantities directly into drains. Sweep up and collect in a sealable fiber or plastic container and proceed according to local waste disposal regulations. Avoid dust creation.

#### 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

**PRODUCT NAME: DIAZO-C SENSITIZING POWDER****Date Prepared: August 14, 2008**

Respirator- NIOSH approved powder respirator if dust is created.  
 Eye- protective goggles recommended  
 Protective footwear- not required  
 Protective clothing- not required  
 Other- none

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Form: powder  
 Color: yellow  
 Odor: odorless  
 Flash point: n.a  
 Ignition temperature: n.a  
 Density: n.a  
 Viscosity: n.a  
 Explosion limits: n.a  
 Boiling point: n.a  
 Vapour density: n.a  
 Vapour pressure: n.a  
 Melting Point: Decomposes at 356°F (180°C)  
 pH: n.a  
 Coefficient of water/ oil distribution: soluble in water  
 Volatile Organic Compounds: less than 0.1%

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## 10. STABILITY AND REACTIVITY

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Stable under recommended storage and handling conditions  
 (see Section 7).  
 Store as a possible flammable solid  
 INCOMPATIBILITY: Strong oxidizers

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## 11. TOXICOLOGICAL INFORMATION

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### Effects of acute exposure:

COMPONENT	CAS#	LD <sub>50</sub>	LC <sub>50</sub>
DIAZO POWDER	41432-19-3	1643 mg/kg, oral rat	Not established

### 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

PRODUCT NAME: **DIAZO-C SENSITIZING POWDER**

Date Prepared: **August 14, 2008**

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 non-hazardous solid 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):

Ingredient	--Canada--				TSCA	EC	DSL	NDSL
	TSCA	EC	DSL	NDSL				
Benzenediazonium, 4-(phenylamino) sulfate (1:1), polymer with formaldehyde (41432-17-3)	Yes	Yes	No	Yes				
Ingredient	-SARA 302- RQ TPQ	-----SARA 313----- List	-RCRA- RQ	CERCLA 261.33	-TSCA- 8(d)			
Benzenediazonium, 4-(phenylamino) sulfate (1:1), polymer with formaldehyde (41432-17-3)	No No	No	No	No	No	No	No	No

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.

**PRODUCT NAME: DIAZO-C SENSITIZING POWDER****Date Prepared: August 14, 2008**

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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**

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**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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