



MATERIAL SAFETY DATA SHEET

PRODUCT NAME

Ulano[®] **TLX[®], TLX/CL[®] EMULSION**

SECTION I

Manufacturer's Name ULANO CORPORATION	Emergency Telephone Number CHEMTREC: (800)424-9300 or (703)527-3887
Address (Number, Street,) 110 THIRD AVENUE (City, State, ZIP Code) BROOKLYN, NY. 11217	Telephone Number for Information (718)237-4700 Fax#: (718)802-1119
Signature of Preparer (optional)	Date Prepared April 3, 2004

SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
TSRN 80100215-5008P	TRADE SECRET	NOT SET	NOT SET		MILD IRRITANT
POLYVINYL ALCOHOL	9002-89-5	NOT SET	NOT SET	<10%	NON HAZARDOUS
POLYVINYL ACETATE	9003-20-7	NOT SET	NOT SET	>10%	NON-HAZARDOUS
TSRN 80100215-5001P	TRADE SECRET	NOT SET	NOT SET		NON-HAZARDOUS
URETHANE ACRYLATE OLIGOMER	TRADE SECRET	NOT SET	NOT SET	<10%	MILD IRRITANT
WATER	7732-18-5				

THIS PRODUCT DOES NOT CONTAIN SARA TITLE III, SECTION 313 REPORTABLE MATERIAL

ULANO PRODUCTS ARE NOT MANUFACTURED WITH, NOR DO THEY CONTAIN CLASS-I OR CLASS-II OZONE DEPLETING CHEMICALS.

SECTION III - Physical/Chemical Characteristics

Boiling Point N.A.	Specific Gravity (H ₂ O=1) 1.1
Vapor Pressure (mm Hg.) N.A.	Melting Point N.A.
Vapor Density (AIR=1) N.A.	Evaporation Rate (H ₂ O=1) N.A.
Solubility in Water INFINITELY DISPERSIBLE IN WATER	
Appearance and Odor GREEN VISCOUS LIQUID	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) N.A.	Flammable Limits N.A.	LEL N.A.	UEL N.A.
Extinguishing Media NON-FLAMMABLE			
Special Fire Fighting Procedures TREAT SURROUNDING FIRE			
Unusual Fire and Explosion Hazards NONE KNOWN			

SECTION V - Reactivity Data

Stability	Unstable	Stable	X
Conditions to Avoid UV RADIATION, HEAT, SUNLIGHT			
Incompatibility (Material to Avoid) OXIDIZERS			
Hazardous Decomposition or Byproducts CARBON MONOXIDE, CARBON DIOXIDE, FORMIC ACID.			
Hazardous Polymerization	May Occur	Will Not Occur	X
Conditions to Avoid HEAT, UV RADIATION, SUNLIGHT			
HMIS	Health [1]	Flammability [0]	Reactivity [0]
			Personal Protection [A]

SECTION VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	NO	YES	NO

Health Hazards (*Acute and Chronic*)

EYE AND SKIN IRRITANT. CAN CAUSE IRREVERSIBLE DAMAGE TO EYES OR SKIN ON PROLONGED CONTACT. CAN INDUCE ALLERGIC OR SENSITIZATION REACTION.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

REDDENING OF SKIN OR BURNING SENSATION IN EYES

Medical Condition Generally Aggravated by Exposure

ALLERGIES, ECZEMA OR SKIN CONDITIONS

Emergency and First Aid Procedures

EYES: FLUSH WITH LARGE QUANTITIES OF WATER, CONSULT A PHYSICIAN. SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. IF IRRITATION OCCURS, CONTACT A PHYSICIAN.

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case Material is Released or Spilled

SMALL SPILLS MAY BE WASHED DOWN SEWER. LARGE SPILLS SHOULD BE ABSORBED ONTO SUITABLE MEDIA.

Waste Disposal Method

MEDIA SHOULD BE DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storing

KEEP AWAY FROM HEAT AND UV RADIATION.

Other Precautions

NONE KNOWN

SECTION VIII - Control Measures

Respiratory Protection (*Specify Type*)

NONE REQUIRED IF ADEQUATE VENTILATION IS PROVIDED.

Ventilation

Local Exhaust	Mechanical (<i>General</i>)	Special	Other
	X		

Protective Gloves

YES

Eye Protection

NIOSH APPROVED SAFETY GLASSES OR GOGGLES

Other Protective Clothing or Equipment

PROTECTIVE APRON

Work / Hygienic Practices

WASH HANDS PROMPTLY AFTER HANDLING MATERIAL.

WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF ULANO CORP. MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.



MATERIAL SAFETY DATA SHEET

PRODUCT NAME

ULANO® DIAZO C SENSITIZER POWDER

SECTION I

Manufacturer's Name

ULANO CORPORATION

Emergency Telephone Number

CHEMTREC (800)424-9300

Address (Number, Street,)

110 THIRD AVENUE

Telephone Number for Information

(718)237-4700 Fax# (718)802-1119

(City, State, ZIP Code)

BROOKLYN, NY. 11217

Date Prepared

MARCH 1, 2004

Signature of Preparer (optional)

SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
BENZENEDIAZONIUM,4(PHENYLAMINO)	41432-19-3	15mg/m³	15mg/m³	Total Dust	Irritant
SULFATE 1:1 POLYMER WITH		5mg/m³	5mg/m³	Respirable Dust	
FORMALDEHYDE					

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ULANO PRODUCTS ARE NOT MANUFACTURED WITH, NOR DO THEY CONTAIN CLASS-I OR CLASS-II OZONE DEPLETING CHEMICALS.

SECTION III - Physical/Chemical Characteristics

Boiling Point

SLOW DECOMPOSITION AT 244°F

Specific Gravity (H₂O=1)

N.A.

Vapor Pressure (mm Hg.)

N.A.

Melting Point

N.A.

Vapor Density (AIR=1)

N.A.

Evaporation Rate (H₂O=1)

N.A.

Solubility in Water

SOLUBLE

Appearance and Odor

YELLOW POWDER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)

N.A.

Flammable Limits

N.A.

LEL

N.A.

UEL

N.A.

Extinguishing Media

CARBON DIOXIDE OR DRY CHEMICAL

Special Fire Fighting Procedures

FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED, AIR BREATHING APPARATUS

Unusual Fire and Explosion Hazards

UNDER FIRE CONDITIONS, OXIDES OF CARBON, NITROGEN AND SULFUR WILL BE LIBERATED

SECTION V - Reactivity Data

Unstable

Stable

Stability

X

Conditions to Avoid

IGNITION SOURCES, TEMPERATURES ABOVE 95°F AND ACTINIC LIGHT. DECOMPOSITION DOES NOT RESULT IN A HAZARDOUS CONDITION, ONLY EFFECTIVENESS DECREASES.

Incompatibility (Material to Avoid)

STRONG OXIDIZERS

Hazardous Decomposition or Byproducts

OXIDES OF CARBON, NITROGEN AND SULFUR DECOMPOSES AT 356°F

May Occur

Will Not Occur

Hazardous Polymerization

X

Conditions to Avoid

STRONG OXIDIZERS

HMIS

Health [2]

Flammability [3]

Reactivity [1]

Personal Protection [C]

SECTION VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	X	X	X

Health Hazards (*Acute and Chronic*)

SKIN: MAY CAUSE SLIGHT IRRITATION WITH PROLONGED CONTACT. EYES: CORROSIVE TO EYES, MAY CAUSE SEVERE IRRITATION. INHALATION: MAY CAUSE IRRITATION OF MOUTH, THROAT AND RESPIRATORY TRACT. INGESTION: MAY BE HARMFUL IF INGESTED. INGESTION MAY CAUSE IRRITATION OF MOUTH, THROAT AND GI TRACT.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

IRRITATION OF EYES, OR MOUTH

Medical Condition Generally Aggravated by Exposure

NONE KNOWN

Emergency and First Aid Procedures

EYES AND SKIN: WASH EFFECTED AREAS WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION OCCURS

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case Material is Released or Spilled

WASH DOWN WITH WATER

Waste Disposal Method

DISPOSE OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS

Precautions to be Taken in Handling and Storing

STORE IN A COOL DRY AREA

Other Precautions

MIX UNDER YELLOW OR SUBDUED LIGHT**SECTION VIII - Control Measures**Respiratory Protection (*Specify Type*)**NIOSH APPROVED DUST MASK IF USING LARGE QUANTITIES****Ventilation**

Local Exhaust	Mechanical (<i>General</i>)	Special	Other
	X		

Protective Gloves

PLASTIC GLOVES

Eye Protection

NIOSH APPROVED GOGGLES

Other Protective Clothing or Equipment

PROTECTIVE APRON

Work / Hygienic Practices

WASH HANDS AFTER HANDLING MATERIAL



MATERIAL SAFETY DATA SHEET

PRODUCT NAME

ULANO® COLOR ADDITIVE FOR TLX/CL® EMULSION

SECTION I

Manufacturer's Name

ULANO CORPORATION

Emergency Telephone Number

CHEMTREC (800)424-9300

Address (Number, Street,)

110 THIRD AVENUE

Telephone Number for Information

(718)237-4700 Fax# (718)802-1119

(City, State, ZIP Code)

BROOKLYN, NY. 11217

Date Prepared

MARCH 1, 2004

Signature of Preparer (optional)

SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
PHTHALO GREEN PIGMENT	1328-53-6	NOT SET	NOT SET	16%	IRRITANT
PROPYLENE GLYCOL	57-55-6	NOT SET	NOT SET	9%	NON HAZARDOUS
WATER	7732-18-5				

THIS PRODUCT CONTAINS APPROXIMATELY 0.7% COPPER WHICH IS REPORTABLE UNDER THE PROVISIONS OF SARA TITLE, III SECTION 302.4

ULANO PRODUCTS ARE NOT MANUFACTURED WITH, NOR DO THEY CONTAIN CLASS-I OR CLASS-II OZONE DEPLETING CHEMICALS.

SECTION III - Physical/Chemical Characteristics

Boiling Point

212+°F

Specific Gravity (H₂O=1)

APPROX. 1

Vapor Pressure (mm Hg.)

N.A.

Melting Point

N.A.

Vapor Density (AIR=1)

N.A.

Evaporation Rate (H₂O=1)

APPROX. 1

Solubility in Water

DISPERSIBLE

Appearance and Odor

GREEN LIQUID

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)

N.A.

Flammable Limits

N.A.

LEL

N.A.

UEL

N.A.

Extinguishing Media

WATER FOG, ALCOHOL FOAM, CARBON DIOXIDE, DRY CHEMICAL

Special Fire Fighting Procedures

DO NOT USE WATER EXCEPT AS FOAM

Unusual Fire and Explosion Hazards

KEEP AWAY FROM EXCESSIVE HEAT OR OPEN FLAMES

SECTION V - Reactivity Data

Unstable

Stable

Stability

X

Conditions to Avoid

NONE KNOWN

Incompatibility (Material to Avoid)

NONE KNOWN

Hazardous Decomposition or Byproducts

CARBON DIOXIDE AND POSSIBLY CARBON DIOXIDE

May Occur

Will Not Occur

Hazardous Polymerization

X

Conditions to Avoid

NONE KNOWN

HMIS

Health [1]

Flammability [0]

Reactivity [0]

Personal Protection [A]

SECTION VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	NO	YES	NO

Health Hazards (*Acute and Chronic*)**EXCESS EXPOSURE CAN CAUSE IRRITATION TO SKIN AND EYES**

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	NO	NO	NO

Signs and Symptoms of Exposure

REDNESS OF SKIN, BURNING OF EYES

Medical Condition Generally Aggravated by Exposure

ALLERGIES, SKIN CONDITIONS

Emergency and First Aid Procedures

EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, CONTACT A PHYSICIAN.**SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER. IF IRRITATION DEVELOPS, CONTACT A PHYSICIAN.****SECTION VII - Precautions for Safe Handling and Use**

Steps to be taken in case Material is Released or Spilled

SMALL SPILLS CAN BE WASHED DOWN SEWER. LARGE SPILLS SHOULD BE ABSORBED ONTO SUITABLE MEDIA.

Waste Disposal Method

DISPOSE OF MEDIA IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.

Precautions to be Taken in Handling and Storing

NONE KNOWN

Other Precautions

AVOID EXCESSIVE CONTACT**SECTION VIII - Control Measures**Respiratory Protection (*Specify Type*)**NONE****Ventilation**

Local Exhaust

Mechanical (*General*)

Special

Other

NONE

Protective Gloves

YES

Eye Protection

NIOSH APPROVED SAFETY GLASSES

Other Protective Clothing or Equipment

PROTECTIVE APRON

Work / Hygienic Practices

WASH HANDS THOROUGHLY AFTER USING MATERIAL