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MATERIAL SAFETY DATA SHEET

* Ulano Fotocoat TZ *

PRODUCT NAME



TZ, TZ/CL, TZ/HY-200B EMULSIONS

SECTION I

Manufacturer's Name
ULANO CORPORATION
Address (Number, Street,)
110 THIRD AVE.
(City, State, ZIP Code)
BROOKLYN, NY. 11217
Signature of Preparer (optional)

Emergency Telephone Number
CHEMTREC: (800)424-9300 or (703)527-3887
Telephone Number for Information
(718)622-5200 Fax#: (718)802-1119
Date Prepared
MAY 1, 2000

SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
WATER	7732-18-5			>40%	
POLYVINYL ACETATE	9003-20-7	NOT SET	NOT SET	>40%%	NON HAZARDOUS
POLYVINYL ALCOHOL	9002-89-5	NOT SET	NOT SET	<10%	NON HAZARDOUS
TSRN 80100215-5000P	TRADE SECRET				NON HAZARDOUS

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 212+°f	Specific Gravity (H ₂ O=1) 1.05-1.08
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 DILUTABLE	
Appearance and Odor ODORLESS, VISCOUS LIQUID. TZ = BLUE, TZ/CL & TZ/HY-200B = WHITE	

V-4330

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 AFTER SENSITIZING, EXPOSURE TO LIGHT WILL CAUSE THICKENING.			
Incompatibility (Material to Avoid) NONE KNOWN			
Hazardous Decomposition or Byproducts NONE KNOWN			
Hazardous Polymerization	May Occur	Will Not Occur	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? NO	Skin? NO	Ingestion? NO
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Health Hazards (*Acute and Chronic*)
PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION

Carcinogenicity:	NTP? NO	IARC Monographs? NO	OSHA Regulated? NO
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Signs and Symptoms of Exposure
PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION

Medical Condition Generally Aggravated by Exposure
NONE KNOWN

Emergency and First Aid Procedures
EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, CALL A PHYSICIAN.
SKIN: WASH EXPOSED AREA WITH SOAP AND WATER. IF IRRITATION OCCURS, SEE 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 RINSED DOWN DRAIN. 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
AVOID FREEZING

Other Precautions
NONE KNOWN

SECTION VIII - Control Measures

Respiratory Protection (*Specify Type*)
NONE

Ventilation

Local Exhaust	Mechanical (<i>General</i>) X	Special	Other
Protective Gloves		Eye Protection	
NONE		NONE	

Other Protective Clothing or Equipment
PROTECTIVE APRON TO AVOID STAINING CLOTHING.

Work / Hygienic Practices
NONE KNOWN

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


DIAZO C SENSITIZER POWDER

SECTION I

Manufacturer's Name ULANO CORPORATION	Emergency Telephone Number CHEMTREC: (800)424-9300 or (703)527-3887
Address (Number, Street.) 255 BUTLER ST.	Telephone Number for Information (718)622-5200 Fax#: (718)802-1119
(City, State, ZIP Code) BROOKLYN, NY. 11217	Date Prepared MAY 1, 2000
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/m ³	15mg/m ³	Total Dust	IRRITANT
SULFATE 1:1 POLYMER WITH FORMALDEHYDE		5mg/m ³	5mg/m ³	Respirable Dust	

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 SLOW DECOMPOSITION AT 244°F	Specific Gravity (H ₂ O=1) N.A.
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 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

Stability	Unstable	Stable		
Conditions to Avoid IGNITION SOURCES, TEMPERATURES ABOVE 95°F AND ACTINIC LIGHT. DECOMPOSITION DOES NOT RESULT IN A HAZARDOUS CONDITION, ONLY EFFECTIVENESS DECREASES.	X			
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 STRONG OXIDIZERS		X		
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 (General)	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

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MATERIAL SAFETY DATA SHEET

PRODUCT NAME


COLOR ADDITIVE FOR TZ/CL, TZ/HY-200B

SECTION I

Manufacturer's Name ULANO CORPORATION Address (Number, Street, 255 BUTLER ST. (City, State, ZIP Code) BROOKLYN, NY. 11217 Signature of Preparer (optional)	Emergency Telephone Number CHEMTREC: (800)424-9300 or (703)527-3887 Telephone Number for Information (718)622-5200 Fax#: (718)802-1119 Date Prepared MAY 1, 2000
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SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
PTHALO BLUE	147-14-8	NOT SET	NOT SET	16%	IRRITANT
PROPYLENE GLYCOL	57-55-6	NOT SET	NOT SET	6%	NON HAZARDOUS
WATER	7723-18-5			~78%	
PTHALO BLUE CONTAINS 3.4% COPPER WHICH IS REPORTABLE UNDER SARA TITLE III, SECTION 313.					

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	Specific Gravity (H ₂ O=1)
N.A.	APPROX. 1
Vapor Pressure (mm Hg.)	Melting Point
N.A.	N.A.
Vapor Density (AIR=1)	Evaporation Rate (H ₂ O=1)
N.A.	1
Solubility in Water	
DISPERSIBLE	
Appearance and Odor	
BLUE LIQUID	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	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				
NONE KNOWN				
Incompatibility (Material to Avoid)				
NONE KNOWN				
Hazardous Decomposition or Byproducts				
NONE KNOWN				
Hazardous Polymerization	May Occur	Will Not Occur		
		X		
Conditions to Avoid				
NONE KNOWN				
HMIS	Health [1]	Flammability [0]	Reactivity [0]	Personal Protection [C]

SECTION VI - Health Hazard Data

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

Health Hazards (*Acute and Chronic*)**MAY CAUSE IRRITATION TO SKIN OR EYES**

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

Signs and Symptoms of Exposure

REDNESS OF SKIN OR BURNING OF EYES

Medical Condition Generally Aggravated by Exposure

NONE KNOWN

Emergency and First Aid Procedures

WASH EFFECTED AREA WITH LARGE QUANTITIES OF WATER. CALL PHYSICIAN IF IRRITATION OCCURS**SECTION VII - Precautions for Safe Handling and Use**

Steps to be taken in case Material is Released or Spilled

WASH SMALL AMOUNTS 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

NONE KNOWN**SECTION VIII - Control Measures**Respiratory Protection (*Specify Type*)**NONE****Ventilation**

Local Exhaust	Mechanical (<i>General</i>)	Special	Other
N.A.	N.A.	N.A.	N.A.

Protective Gloves

PLASTIC GLOVES

Eye Protection

NIOSH APPROVED GOGGLES

Other Protective Clothing or Equipment

PROTECTIVE APRON TO AVOID STAINING CLOTHES

Work / Hygienic Practices

NONE KNOWN

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PAGE-2 (TZ/CL,TZ/HY-200B COLOR ADDITIVE)