



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME

**Ulano<sup>®</sup> LX690<sup>®</sup> EMULSION**

## SECTION I

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

## SECTION II: INGREDIENTS/IDENTITY INFORMATION

Ingredients (Specific Chemical Identity; Common Name(s))	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
<b>WATER</b>	<b>7732-18-5</b>	<b>NOT SET</b>	<b>NOT SET</b>	<b>~50%</b>	<b>NON HAZARDOUS</b>
<b>POLYVINYL ACETATE</b>	<b>9003-20-7</b>	<b>NOT SET</b>	<b>NOT SET</b>	<b>&gt;10%</b>	<b>NON-HAZARDOUS</b>
<b>POLYVINYL ALCOHOL</b>	<b>25213-24-5</b>	<b>NOT SET</b>	<b>NOT SET</b>	<b>&lt;10%</b>	<b>NON HAZARDOUS</b>
<b>TSRN 80100215-5001P</b>	<b>TRADE SECRET</b>	<b>NOT SET</b>	<b>NOT SET</b>	<b>&lt;20%</b>	<b>MILD IRRITANT</b>
<b>ACRYLATE OLIGOMER</b>	<b>TRADE SECRET</b>	<b>NOT SET</b>	<b>NOT SET</b>	<b>&lt;20%</b>	<b>MILD IRRITANT</b>

**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 <b>212°F</b>	Specific Gravity (H <sub>2</sub> O = 1) <b>1.07</b>
Vapor Pressure (mm Hg.) <b>23.3 mbar</b>	Melting Point <b>N.A.</b>
Vapor Density (AIR=1) <b>N.A.</b>	Evaporation Rate (H <sub>2</sub> O = 1) <b>N.A.</b>
Solubility in Water <b>INFINITELY DISPERSIBLE IN WATER</b>	
Appearance and Odor <b>VISCOUS LIQUID COLORED RED.</b>	

## SECTION IV: FIRE AND EXPLOSION HAZARD DATA

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

## SECTION V: REACTIVITY DATA

Stability	Unstable	Stable		
		<b>X</b>		
Conditions to Avoid <b>UV RADIATION, HEAT, SUNLIGHT</b>				
Incompatibility (Material to Avoid) <b>OXIDIZERS</b>				
Hazardous Decomposition or Byproducts <b>CARBON MONOXIDE, CARBON DIOXIDE. TRACES OF NITROGEN AND SULPHUR OXIDES</b>				
Hazardous Polymerization	May Occur	Will Not Occur		
		<b>X</b>		
Conditions to Avoid <b>HEAT, UV RADIATION, SUNLIGHT</b>				
Hazardous Materials Identification Scheme (HMIS)	Health	Flammability	Reactivity	Personal Protection
	<b>1</b>	<b>0</b>	<b>0</b>	<b>A</b>

## SECTION VI: HEALTH HAZARD DATA

Route(s) of Entry	Inhalation? <b>NO</b>	Skin? <b>YES</b>	Ingestion? <b>NO</b>
-------------------	--------------------------	---------------------	-------------------------

Health Hazards (*Acute and Chronic*)

**May cause sensitization of skin on contact. Irritating to eyes and skin. May cause irritation of the mucous membranes.**

Carcinogenicity:	NTP? <b>NO</b>	IARC Monographs? <b>NO</b>	OSHA Regulated? <b>NO</b>
------------------	-------------------	-------------------------------	------------------------------

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> ) <b>X</b>	Special	Other
-------------	---------------	---	---------	-------

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, THE ULANO CORPORATION 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 <b>ULANO CORPORATION</b>	Emergency Telephone Number <b>CHEMTREC: (800)424-9300 or (703)527-3887</b>
Address (Number, Street) <b>110 THIRD AVENUE</b>	Telephone Number for Information <b>(718) 237-4700, Fa#:x (718) 802-1119</b>
(City, State, ZIP Code) <b>BROOKLYN, NY 11217</b>	Date Prepared <b>MAY 1, 2004</b>
Signature of Preparer (optional)	

## SECTION II: INGREDIENTS/IDENTITY INFORMATION

Ingredients (Specific Chemical Identity; Common Name(s))	C.A.S. #	OSHA PEL	ACGIH TLV	Approx. Conc.	Hazard Type
<b>BENZENEDIAZONIUM, 4(PHENYLAMINO) SULFATE, 1:1 POLYMER WITH FORMALDEHYDE</b>	<b>41432-19-3</b>	<b>10 mg/m<sup>3</sup></b>	<b>10 mg/m<sup>3</sup></b>	<b>100%</b>	<b>IRRITANT</b>
<b>(COMPOUND ALSO LISTED AS 4-DIAZODIPHENYLAMINE SULFATE, FORMALDEHYDE POLYMER)</b>					
<b>THIS PRODUCT DOES NOT CONTAIN SARA TITLE III, SECTION 313 REPORTABLE MATERIAL</b>					

**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 <b>SLOW DECOMPOSITION AT 244°F</b>	Specific Gravity (H <sub>2</sub> O = 1) <b>N.A.</b>
Vapor Pressure (mm Hg) <b>N.A.</b>	Melting Point <b>N.A.</b>
Vapor Density (Air = 1) <b>N.A.</b>	Evaporation Rate (H <sub>2</sub> O = 1) <b>N.A.</b>
Solubility in Water <b>SOLUBLE</b>	
Appearance and Odor <b>YELLOW POWDER</b>	

## SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) <b>N.A.</b>	Flammable Limits <b>N.A.</b>	LEL <b>N.A.</b>	UEL <b>N.A.</b>
Extinguishing Media <b>CARBON DIOXIDE OR DRY CHEMICAL</b>			
Special Fire Fighting Procedures <b>AS ALWAYS, FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED, SUPPLIED-AIR BREATHING APPARATUS</b>			
Unusual Fire and Explosion Hazards <b>UNDER FIRE CONDITIONS, OXIDES OF CARBON, NITROGEN AND SULFUR WILL BE LIBERATED</b>			

## SECTION V: REACTIVITY DATA

Stability	Unstable	Stable		
	<b>X</b>			
Conditions to Avoid <b>IGNITION SOURCES, TEMPERATURES ABOVE 95°F AND ACTINIC LIGHT.</b>				
<b>DECOMPOSITION DOES NOT RESULT IN A HAZARDOUS CONDITION, ONLY EFFECTIVENESS DECREASES.</b>				
Incompatibility (Material to Avoid) <b>STRONG OXIDIZERS</b>				
Hazardous Decomposition or Byproducts <b>OXIDES OF CARBON, NITROGEN AND SULFUR. DECOMPOSES AT 356°F</b>				
Hazardous Polymerization	May Occur	Will Not Occur		
		<b>X</b>		
Conditions to Avoid <b>STRONG OXIDIZERS</b>				
Hazardous Materials Identification Scheme (HMIS)	Health	Flammability	Reactivity	Personal Protection
	<b>2</b>	<b>3</b>	<b>1</b>	<b>C</b>

## SECTION VI: HEALTH HAZARD DATA

Route(s) of Entry	Inhalation? <b>X</b>	Skin? <b>X</b>	Ingestion? <b>X</b>
Health Hazards ( <i>Acute and Chronic</i> ) <b>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.</b>			
Carcinogenicity:	NTP? <b>NO</b>	IARC Monographs? <b>NO</b>	OSHA Regulated? <b>NO</b>
Signs and Symptoms of Exposure <b>IRRITATION OF EYES, OR MOUTH</b>			
Medical Condition Generally Aggravated by Exposure <b>NONE KNOWN</b>			

### 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 DUST CONCENTRATIONS EXCEEDS EXPOSURE LIMITS**

Ventilation	Local Exhaust	Mechanical ( <i>General</i> ) <b>X</b>	Special	Other
Protective Gloves <b>PLASTIC GLOVES</b>	Eye Protection <b>NIOSH APPROVED GOGGLES</b>			

### Other Protective Clothing or Equipment

**PROTECTIVE APRON**

### Work / Hygienic Practices

**WASH HANDS AFTER HANDLING MATERIAL**