



MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: LX660 DIRECT EMULSION

Previous Issue: November 23, 2009

Date Prepared: November 2, 2012

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **LX660 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

Xi Irritant

36 Irritating to eyes

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:

PRODUCT NAME: **LX660 DIRECT EMULSION**

Date Prepared: November 2, 2012

Engineering controls

General- not required
 Local exhaust- recommended
 Other- none

Personal Protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: viscous liquid
 Color: red
 Odor: mild
 Flash point: n.a
 Ignition temperature: n.a
 Density: ~1.1 g/cm³
 Viscosity: ~13,000 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: 4.2-5.8
 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:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
Acrylates	Trade Secret	>5,000 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

PRODUCT NAME: LX660 DIRECT EMULSION

Date Prepared: November 2, 2012

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 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

Xi

PRODUCT NAME: LX660 DIRECT EMULSION**Date Prepared: November 2, 2012**

R-phrases:

36 Irritating to eyes

S-phrases:26 In case of contact with eyes, rinse immediately with plenty of water
and seek medical attention**Special labeling:**

n.a

National Regulation for Germany:

Water pollution class: 1

16. OTHER INFORMATION

HMIS: Health 1, Flammability 0, Reactivity 0

Text of risk phrases mentioned in Section 2:

Xi Irritant
36 Irritating to eyes

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.

DISCLAIMER OF RESPONSIBILITY:

This document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of this product.



MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: DIAZO - C / SENSITIZING POWDER

Previous Issue: June 28, 2011

Date Prepared: Jan 3, 2012

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:	P.Drago
Recommended use:	Sensitizing powder for stencil emulsions.

2. HAZARD IDENTIFICATION OF THE PREPARATION

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

This product may be a flammable solid

Appearance: Powder

Odor: 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

Xn Hazardous

22 Harmful if swallowed

36 Irritating to eyes

May Be Flammable. Self Reactive Substance

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.

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

Date Prepared: Jan 3, 2012

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials
Hazardous components:

EINECS-No	CAS-No.	Name	R-phrases	Hazard	% content
Not found	41432-19-3	Benzenediazonium, 4-(phenylamino)-,sulfate polymer with formaldehyde	11, 36, 22	F, Xn	100%

Additional information:

For full text of risk phrases see Section 16.

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: Expected to be a low ingestion hazard. May cause irritation to throat and mouth. Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical attention if irritation develops.

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
Lower flammable limit:	n.a
Explosion data impact:	n.a
Explosion data static:	n.a
Hazardous combustion products:	During fire, toxic fumes will be liberated. Dust may cause an explosion.
Autoignition temp:	n.a
Decomposition temperature:	180°C

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

Fire fighters should wear SCBA for fighting fires in enclosed areas.

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

Date Prepared: Jan 3, 2012

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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
Vapor density:	n.a
Vapor 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%

PRODUCT NAME: DIAZO - C / SENSITIZING POWDER

Date Prepared: Jan 3, 2012

10. STABILITY AND REACTIVITY

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

Avoid exposure to heat and light

Store as a possible flammable solid

INCOMPATABILITY: Strong oxidizers

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
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
 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 possible flammable solid.
 Empty container: scrap recycling or re-conditioning.
 Soiled container: (treatment like product itself)

PRODUCT NAME: DIAZO - C / SENSITIZING POWDER**Date Prepared: Jan 3, 2012****14. TRANSPORT INFORMATION**

ADR/RID/DOT: Class: 4.1 (Self Reactive Solid, Type D)
UN: 3226

Packaging group: n.a

IATA Class: 4.1 (Self Reactive Solid, Type D)
Label: 4.1
UN 3226
Passenger Aircraft: 429
Cargo Aircraft: 430

IMDG: Class: 4.1 (Self Reactive Solid, Type D)
EMS: F-J, S-G
UN: 3226

Marine pollutant: No
Packaging group: n.a

15. REGULATORY INFORMATION

Global Inventories (components):

INGREDIANT	CAS No.	SARA 302 RQ	SARA 302 TPQ	SARA 313 LIST	RCRA RQ	CRCLA 261.33	TSCA 8(d)
Benzenediazonium, 4-(phenylamino) sulfate (1:1), polymer with formaldehyde	(41432-17-3)	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.

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

Xn

R-phrases:

22 Harmful if swallowed
36 Irritating to eyes

S-phrases:

16 Keep away from sources of ignition-No smoking
26 In case of contact with eyes, rinse with plenty of water and seek medical advice
33 Take precautionary measures against static discharges

Special labeling:

National Regulation for Germany:

Water pollution class: 1

PRODUCT NAME: DIAZO - C / SENSITIZING POWDER**Date Prepared: Jan 3, 2012**

16. OTHER INFORMATION

HMIS: Health 1, Flammability 2, Reactivity 0

Text of risk phrases mentioned in Section 2:

Xn

22 Harmful if swallowed

36 Irritating to eyes

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.

DISCLAIMER OF RESPONSIBILITY:

This document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification. The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of this product.