



MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: ULANO A-DEVELOPER POWDER

Previous Issue: July 13, 2009

Date Prepared: June 22, 2010

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **A-DEVELOPER 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.

This product may be a flammable solid

Appearance / Odor: white 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

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:

EINECS-No	Name	Hazard	%content
CAS-No.	R-phrases		
201-069-1	Citric Acid		
77-92-9	36	Xi	60.0-100.0%

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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 if necessary.

Ingestion:

If conscious, drink milk or water. Get medical attention.

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: Oxides of carbon

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

Autoignition temp: Decomposition temperature 1852°F (1011°C)

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**

77-92-9

Citric Acid

None listed

None listed

Engineering controls

General- not required

Local exhaust- recommended

Other- none

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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: white
 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: Not known
 pH: n.a
 Coefficient of water/ oil distribution: soluble in water

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 solid
 INCOMPATIBILITY: Strong oxidizers

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
Citric Acid	77-92-9	5,040 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

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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 non-hazardous solid
 Empty container: scrap 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
 IATA Class: Not regulated
 UN: 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):

--Canada--

Ingredient	TSCA	EC	DSL	NDSL
Citric Acid (77-92-9)	Yes	Yes	Yes	No

Ingredient	-SARA 302-	-----SARA 313-----	-RCRA-	CERCLA	-TSCA-	
	RQ	TPQ	List	RQ	261.33	8(d)
Citric Acid	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.

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Labeling

Xi

R-phrases:

36 Irritating to eyes

S-phrases:

26 In case of contact with eyes, rinse with plenty of water and seek medical advice

Special labeling:

National Regulation for Germany:

Water pollution class: 1

16. OTHER INFORMATION

HMIS: Health 1, Flammability 2, Reactivity 0

Text of risk phrases mentioned in Section 2:

Xi

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:

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