



MATERIAL SAFETY DATA SHEET

PRODUCT NAME

Ulano HI-FI DEVELOPER PART A

SECTION I

Manufacturer's Name ULANO CORPORATION	Emergency Telephone Number CHEMTREC: (800)424-9300 or (703)527-3887
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 June 29, 2001
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
CITRIC ACID	77-92-9	NOT SET	NOT SET	100%	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 N.A.	Specific Gravity (H ₂ O=1) 1.665
Vapor Pressure (mm Hg.) N.A.	Melting Point 153°C
Vapor Density (AIR=1) N.A.	Evaporation Rate (H ₂ O=1) N.A.
Solubility in Water 60% BY WEIGHT	
Appearance and Odor ODORLESS POWDER OR FINE GRANULES	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) IGNITION POINT 1000-1020°C	Flammable Limits N.A.	LEL N.A.	UEL N.A.
Extinguishing Media WATER			
Special Fire Fighting Procedures NONE KNOWN			
Unusual Fire and Explosion Hazards NONE KNOWN			

SECTION V - Reactivity Data

	Unstable	Stable
Stability		X
Conditions to Avoid NONE KNOWN		
Incompatibility (Material to Avoid) NONE KNOWN		
Hazardous Decomposition or Byproducts NONE KNOWN		
	May Occur	Will Not Occur
Hazardous Polymerization		X
Conditions to Avoid NONE KNOWN		

HMIS	Health [1]	Flammability [0]	Reactivity [0]	Personal Protection [A]
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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 CONTACT MAY CAUSE SKIN IRRITATION

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

Medical Condition Generally Aggravated by Exposure
NONE KNOWN

Emergency and First Aid Procedures
EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES, CALL A PHYSICIAN. SKIN: WASH AREA WITH WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in case Material is Released or Spilled
RECOVER BY VACUUM OR BROOM. WASH DOWN AREA WITH WATER.

Waste Disposal Method
DISPOSE OF IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. MATERIAL IS BIODEGRADABLE IN WASTE TREATMENT FACILITY.

Precautions to be Taken in Handling and Storing
STORE IN A DRY PLACE

Other Precautions
NONE KNOWN

SECTION VIII - Control Measures

Respiratory Protection (*Specify Type*)
NIOSH APPROVED DUST MASK IF DUST IS A FACTOR

Ventilation

Local Exhaust X	Mechanical (<i>General</i>)	Special	Other
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Protective Gloves NONE NORMALLY REQUIRED	Eye Protection NIOSH APPROVED SAFETY GLASSES
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Other Protective Clothing or Equipment
NONE

Work / Hygienic Practices
NONE



MATERIAL SAFETY DATA SHEET

PRODUCT NAME

ULANO® HI-FI DEVELOPER PART B

SECTION I

Manufacturer's Name

ULANO CORPORATION

Address (Number, Street,)

110 THIRD AVENUE

(City, State, ZIP Code)

BROOKLYN, NY 11217

Signature of Preparer (optional)

Emergency Telephone Number

CHEMTREC (800)424-9300

Telephone Number for Information

(718) 237-400, Fax (718) 802-1119

Date Prepared

June 29, 2001

SECTION II - Ingredients/Identity Information

(Specific Chemical Identity; Common Name(s))

Ingredients	C.A.S. #	OSHA PEL	ACGIH TLV	CONC.	Hazard Type
SODIUM PERBORATE TETRAHYDRATE	10486-00-7	15mg/m³ TOTAL DUST 5 mg/m³ RESP. DUST	PNOC	100%	MILD IRRITANT

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 (H₂O=1)

BULK DENSITY 690-870 kg/m³

Vapor Pressure (mm Hg)

10mm @ 25°C

Melting Point

DECOMPOSES

Vapor Density (AIR=1)

N.A.

Evaporation Rate (H₂O=1)

N.A. (pH=10.0-10.4 in water)

Solubility in Water

APPROXIMATELY 3%

Appearance and Odor

ODORLESS WHITE CRYSTALLINE SOLID

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 FIRES

Unusual Fire and Explosion Hazards

RELEASES OXYGEN AT HIGH TEMPERATURES

SECTION V - Reactivity Data

Unstable

Stable

Stability

X

Conditions to Avoid

NONE KNOWN

Incompatibility (Material to Avoid)

HEAVY METAL SALTS, COMBUSTIBLE ORGANIC MATERIAL, MOISTURE

Hazardous Decomposition or Byproducts

OXYGEN CAN BE RELEASED AT HIGH TEMPERATURES

May Occur

Will Not Occur

Hazardous Polymerization

X

Conditions to Avoid

NONE KNOWN

HMIS

Health [3]

Flammability [0]

Reactivity [0]

Personal Protection [E]

SECTION VI - Health Hazard Data

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

Health Hazards (*Acute and Chronic*)**MAY CAUSE SKIN IRRITATION OR RASH. MAY CAUSE EYE CORROSION WITH CORNEAL AND CONJUNCTIVAL ULCERATION**

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

Signs and Symptoms of Exposure

MAY CAUSE EYE OR SKIN IRRITATION

Medical Condition Generally Aggravated by Exposure

NONE KNOWN

Emergency and First Aid Procedures

EYES AND SKIN: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. INGESTION: GIVE TWO GLASSES OF WATER AND INDUCE VOMITING. CALL A PHYSICIAN. INHALATION: MOVE TO FRESH AIR.**SECTION VII - Precautions for Safe Handling and Use**

Steps to be taken in case Material is Released or Spilled

SWEEP UP AND WASH AREA WITH WATER

Waste Disposal Method

DILUTE WITH LARGE QUANTITIES OF WATER AND FLUSH DOWN SEWER

Precautions to be Taken in Handling and Storing

STORE IN COOL DRY AREA. AVOID HIGH HUMIDITY AND TEMPERATURES IN EXCESS OF 90°F TO PREVENT LOSS OF OXYGEN AND CAKING.

Other Precautions

DO NOT GET IN EYES. AVOID BREATHING DUST**SECTION VIII - Control Measures**Respiratory Protection (*Specify Type*)**NIOSH APPROVED DUST RESPIRATOR ADVISABLE IF THRESHOLD LIMITS ARE EXCEEDED****Ventilation**

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

Protective Gloves

IMPERVIOUS GLOVES

Eye Protection

NIOSH APPROVED SAFETY GLASSES

Other Protective Clothing or Equipment

APRON

Work / Hygienic Practices

WASH THOROUGHLY AFTER HANDLING