



# MATERIAL SAFETY DATA SHEET

## WHITE PIGMENT INK 300-2004-001

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WHITE PIGMENT INK  
PRODUCT FAMILY: 300-2004-001  
PRODUCT CLASS: INKJET INK  
EMERGENCY CONTACT: CHEMTREC  
EMERGENCY PHONE: 1-800-424-9300 (US) or 703-527-3887  
SUPPLIER: Citronix  
3030 Southeast Loop 820  
Fort Worth, Texas 76140 USA  
Sales Office, 8 a.m. – 5 p.m. Monday-Friday  
Phone: 817-568-9800 Fax: 817-568-1970

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS No.	EINECS No.	CLASSIFICATION	CONTENT (WEIGHT) %
Butanone	78-93-3	201-159-0	Xi, F, R11, R36, R37, R66, R67	1-5
N-Butyl Acetate	123-86-4	204-658-1	R10, R66, R67	5-10
Propanone	67-64-1	200-662-2	Xn, F, R11, R36, R37, R38, R66, R67	45-60

\* Occupational Exposure Limits, if available, are listed in Section 8.

### 3. HAZARDS IDENTIFICATION

HAZARD CODE (NATIONAL FIRE PROTECTION ASSOCIATION - USA):

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	3
<b>REACTIVITY</b>	0
<b>SPECIAL</b>	

EMERGENCY OVERVIEW: White liquid. Avoid contact with skin, eyes and clothing. Do not ingest.

### 3. HAZARDS IDENTIFICATION Continued

POTENTIAL HEALTH EFFECTS:	Acute eye: May cause mild eye irritation including stinging, redness, and tearing. Can cause serious eye injury. Acute skin: Prolonged exposure may result in the absorption of a harmful amount of the material. Symptoms include redness, burning, and drying and cracking of the skin. Acute inhalation: Low vapor concentrations cause irritation of the respiratory tract causing coughing and slight difficulty with breathing. High concentrations produce more severe irritation, and may be accompanied by nausea, fatigue, weakness, euphoria, drowsiness, double vision, ataxia, and coma. Acute ingestion: Moderately toxic. Ingestion of moderate quantities may cause abdominal discomfort, nausea, and drowsiness.
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### 4. FIRST AID MEASURES

EYES:	Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist.
SKIN:	Remove contaminated clothing. Wash affected area with plenty of soap and water. Seek medical attention if irritation develops or persists.
INHALATION:	Move exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep affected person warm and at rest. Seek medical attention.
INGESTION:	If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Contact poison control center immediately at 1-617-232-2121, Boston, MA for advice about whether to induce vomiting. Do not leave individual unattended.
NOTES TO PHYSICIAN:	Butanone is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin lung (for example, asthma-like conditions).

### 5. FIRE FIGHTING MEASURES

FLASH POINT, METHOD:	-4.0°F, T.C.C. (Propanone)
LOWER EXPLOSIVE LIMIT:	LEL: 2.0
UPPER EXPLOSIVE LIMIT:	UEL: 10.4
EXTINGUISHING MEDIA:	Use: "Alcohol" foam, Carbon Dioxide, Dry Chemical, water spray.
PERSONAL PROTECTIVE EQUIPMENT:	Wear approved/certified self-contained breathing apparatus and full protective gear.
SPECIAL PROCEDURES:	Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities. Use water to keep fire exposed containers cool and disperse vapors. Move container from fire area if it can be done without risk.
UNUSUAL FIRE & EXPLOSION HAZARDS:	Vapors from this product may travel or be moved by air currents and could be ignited by any source of ignition, including static electricity.
HAZARDOUS COMBUSTION PRODUCTS:	Combustion may lead to production of carbon monoxide and/or carbon dioxide.

### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Chemical splash goggles or face shield, protective clothing, gloves.
CONTAINMENT OF SPILL:	Ventilate. Stop leak if it can be done without risk. If needed, dike spill using absorbent or impervious material such as vermiculite, dry sand, clay, or earth.
CLEAN UP AND DISPOSAL OF SPILL:	Collect spills with absorbent, non-combustible material into suitable containers.
ENVIRONMENTAL PRECAUTIONS:	Do not allow material to enter into public sewer system, waterway, or ground. If large amounts of material are released, report to appropriate local and/or state agencies.

## 7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:	Flammable liquid. Keep away from heat, sparks and open flame. Avoid spilling. Avoid skin and eye contact. Avoid prolonged or repeated contact with liquid and inhalation of vapor or mist. Use in well ventilated area.
STORAGE PRECAUTIONS:	Keep away from heat, sparks, and open flames. Store in a cool, dry place with adequate ventilation in tightly sealed containers. Empty containers contain residue. Do not expose to heat or other sources of ignition.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

NAME	CAS No	EXPOSURE LIMITS (PPM, 8 HR TWA)	
		OSHA PEL	ACGIH TLV
Butanone	78-93-3	200	200
N-Butyl Acetate	123-86-4	150	150
Propanone	67-64-1	1000	500

PROTECTIVE EQUIPMENT:



OTHER PROTECTIVE EQUIPMENT:	Eye bath, safety shower.
ENGINEERING CONTROLS:	Local exhaust to minimize exposure to vapor and particulate matter.
EYE PROTECTION:	Wear mongoggles or face shield.
SKIN PROTECTION:	Wear impermeable gloves such as "Viton" nitrile and protective apron to minimize possibility of skin contact.
RESPIRATORY PROTECTION:	The use of respiratory protection depends on vapor concentration above the time weighted TLV. Use a NIOSH-approved cartridge respirator or gas mask. Do not wear contact lenses.
HYGIENIC PRACTICES:	DO NOT SMOKE IN WORK AREA! Promptly remove contaminated clothing. Wash immediately if skin becomes contaminated. Do not eat or drink in work area while using this product. Wash thoroughly at the end of the workday, before eating and using the restroom.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE & APPEARANCE:	White liquid.
ODOR:	Characteristic Ketone
PH:	N/A
DENSITY (LIQUID, LB/GAL, 20 C):	8.8
DENSITY (VAPOR, AIR=1):	Heavier than air
BOILING PT RANGE (760 mmHg):	133-264 °F
VOC (Less exempt, Lbs/Gal)	0.98
SOLUBILITY DESCRIPTION:	Partially miscible
FLASH POINT:	-4.0°F T.C.C. (Propanone)

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Normally stable.
HAZARDOUS POLYMERIZATION:	Will not occur.
CHEMICAL INCOMPATIBILITY:	This product is incompatible with strong oxidizing agents, strong acids or bases, alkalis and chlorinated compounds.
CONDITIONS TO AVOID:	All ignition sources.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE DATA

EYE IRRITATION:	EYE CONTACT: Irritant to eyes and mucous membranes.
SKIN IRRITATION:	SKIN CONTACT: Irritant to skin.
ORAL LD50:	Unknown
DERMAL LD50:	Unknown
INHALATION LC50:	Unknown

### CHRONIC DATA

TOXICITY STUDIES:	Not determined
MUTAGENICITY DATA:	Not determined
REPRODUCTIVE/TERATOLOGY DATA:	Not determined
CARCINOGENICITY DATA:	None Known

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Not determined
DEGRADABILITY:	Not determined
ACUTE FISH TOXICITY:	Not determined

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL PROCEDURES:	Dispose of material in accordance with applicable local, state, or federal regulations.
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## 14. TRANSPORTATION INFORMATION

LABEL FOR CONVEYANCE:

HAZARD CLASS:	CLASS 3: FLAMMABLE LIQUIDS
UN NUMBER:	1210
PROPER SHIPPING NAME:	PRINTING INK
PACKING GROUP:	II
MARINE POLLUTANT:	No

## 15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



IRRITANT  
HARMFUL      FLAMMABLE

SARA TITLE 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an IMMEDIATE HEALTH, DELAYED HEALTH and FIRE hazard. This product contains the following hazardous chemicals subject to reporting the reporting requirements of Section 313, Title 3 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL	CAS NUMBER	% (WEIGHT)
Butanone	78-93-3	1-5

TSCA STATUS:

All chemical substances used in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

CERCLA:

The following chemicals are listed by CERCLA:

CHEMICAL	CAS NUMBER	% (WEIGHT)	CERCLA RQ (lbs)
Butanone	78-93-3	1-5	5,000
N-butyl Acetate	123-86-4	5-10	5,000
Propanone	67-64-1	45-60	5,000

CALIFORNIA PROP 65:

This product contains the following chemicals listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm:

CHEMICAL	CAS NUMBER	% (WEIGHT)
1,4-Dioxane	123-91-1	<0.01

RISK PHRASES:

R10 Flammable; R11 Highly Flammable; R36 Irritating to eyes; R37 Irritating to Respiratory system; R66 Repeated exposure may skin cause dryness or cracking; R67 Vapors may cause drowsiness and dizziness

SAFETY PHRASES:

S9 Keep container in a well ventilated place; S16 Keep away from sources of ignition; S23 Do not breathe fumes; S25 Avoid contact with eyes; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance; S33 Take precautionary measures against static discharge

HAZARD ABBREVIATIONS:

Xi Irritant, Xn Harmful, F Highly Flammable

## 16. OTHER INFORMATION

ISSUE DATE:

February 26, 2007

REVISION DATE:

February 26, 2007

SUPERSEDES:

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DISCLAIMER:

The information and data stated herein, although in no way guaranteed, are based upon tests and reports considered to be reliable and are believed to be accurate. However, in no event will the above named supplier assume any liability whatsoever for the accuracy or completeness of the information contained herein. It is the responsibility of the person(s) and/or entities receiving these materials to determine the suitability for their intended uses and applications. All materials may present unknown hazards and should be used with caution. Potential hazards include but are not limited to those reported herein.