



MATERIAL SAFETY DATA SHEET

WHITE PIGMENT MAKEUP 300-2005-001

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WHITE PIGMENT MAKEUP
PRODUCT FAMILY: 300-2005-001
PRODUCT CLASS: INKJET MAKEUP
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
PRODUCT NAME: WHITE PIGMENT MAKEUP

2. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS No.	EINECS No.	CLASSIFICATION	CONTENT (WEIGHT) %
Acetone	67-64-1	200-662-2	F, Xi, R11, R36, R66, R67	>90
4-Chlorobenzotrifluoride	98-56-6	202-681-1	Xi, R10, R36, R37, R38	1-10

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

3. HAZARDS IDENTIFICATION

HAZARD CODE (NATIONAL FIRE PROTECTION ASSOCIATION - USA):

HEALTH	1
FLAMMABILITY	3
REACTIVITY	1
SPECIAL	

EMERGENCY OVERVIEW: Clear black liquid. Flammable. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation.

POTENTIAL HEALTH EFFECTS: Acute eye: Can cause eye irritation. Symptoms include stinging, tearing, redness and swelling of eyes.
Acute skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.
Acute inhalation: Breathing of vapor or mist is possible. Breathing small amounts of acetone during normal handling is not likely to cause harmful effects. Prolonged exposure or breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than recommended exposure limits.
Acute ingestion: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the

3. HAZARDS IDENTIFICATION Continued

POTENTIAL HEALTH EFFECTS Continued: lungs during swallowing or vomiting, resulting in lung inflammation and other lung injury. Symptoms of Exposure: Signs and symptoms of exposure to acetone through breathing, swallowing, and/or passage of acetone through the skin may include: mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, high blood sugar, coma. Target Organ Effects: Acetone shortens the time of onset or worsens the liver and kidney damage induced by other chemicals. Overexposure to acetone and/or 4-chlorobenzotrifluoride has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities, and/or thyroid damage.

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: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If affected person is conscious and alert, give 2 to 3 glasses of water to dilute the swallowed material. Do not induce vomiting. If vomiting occurs, the head should be kept low so that the stomach vomit does not enter the lungs. Seek immediate medical attention.

NOTES TO PHYSICIAN: Acetone is an aspiration hazard. Potential danger from aspiration must be weighed against oral toxicity when deciding whether to induce vomiting. Acetone has produced hyperglycemia and ketosis following substantial ingestion. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to acetone: skin, lung (for example, asthma-like conditions), blood-forming system.

5. FIRE FIGHTING MEASURES

FLASH POINT, METHOD: -4 °F, T.C.C. (Acetone)

LOWER EXPLOSIVE LIMIT: 2.6% (Acetone)

UPPER EXPLOSIVE LIMIT: 12.8% (Acetone)

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. Can release vapors that form flammable mixtures at temperatures at or above the flashpoint.
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
Acetone	67-64-1	1000	500
4-Chlorobenzotrifluoride*	98-56-6	Not Established	Not Established

* Manufacturer recommends 20 ppm (8-hour TWA)

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. Do not wear contact lenses.
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.
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:	Clear black liquid
ODOR:	Characteristic, sweet
PH:	Not Applicable
DENSITY (LIQUID, LB/GAL, 20 C):	6.7
DENSITY (VAPOR, AIR=1):	Heavier than air
BOILING PT RANGE (760 mmHg):	130-282°F
VOC (LB/GAL):	0.0
SOLUBILITY DESCRIPTION:	Partially miscible
FLASH POINT:	-4 °F T.C.C. (Acetone)

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. 4-Chlorobenzotrifluoride reaction with sodium dimethylsulfinate is expected to be strongly exothermic.
CONDITIONS TO AVOID:	All ignition sources and UV radiation.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride and organic halides.

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:	Acetone has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.
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.

14. TRANSPORTATION INFORMATION

LABEL FOR CONVEYANCE:

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

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:

	IRRITANT	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)
	None		
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.)
Acetone	67-64-1	>90	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)
Benzene	71-43-2	Trace
1,4-Dioxane	123-91-1	<0.00001

RISK PHRASES:

R10 Flammable, R11 Highly Flammable; R36 Irritating to eyes; R37 Irritating to the respiratory system; R38 Irritating to the skin; R66 Repeated exposure may cause skin dryness or cracking ; R67 Vapors may cause drowsiness or dizziness.

SAFETY PHRASES:

S9 Keep container in a well ventilated place; S16 Keep away from sources of ignition; S24 Avoid contact with skin; S25 Avoid contact with eyes; S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S28 After contact with skin, wash immediately with plenty of water; S33 Take precautionary measures against static discharge; S37 Wear suitable gloves; S39 Wear eye/face protection; S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

HAZARD ABBREVIATIONS:

F Highly Flammable, Xi Irritant

16. OTHER INFORMATION

ISSUE DATE:

February 27, 2007

REVISION DATE:

February 27, 2007

SUPERSEDES:

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.