



# MATERIAL SAFETY DATA SHEET

## ETHANOL MAKEUP

### 300-4003-001 and 300-4002-001

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME** ETHANOL MAKEUP

**PRODUCT CODE** 300-4003-001 (16oz.) and 300-4002-001 (4oz.)

**PRODUCT USE** Ink Jet Printers

**SUPPLIER** Citronix, 3030 Southeast Loop 820, Fort Worth, Texas 76140  
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**EMERGENCY TELEPHONE:** CHEMTREC - 1-800-424-9300 (U.S. calls) 703-527-3887  
(International calls)

#### 2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS No.	WEIGHT
ETHANOL	64-17-5	60-100 %
ISOPROPANOL	67-63-0	1-5 %
ACETONE	67-64-1	1-5 %

#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Highly flammable  
Irritating to eyes  
Repeated exposure may cause skin dryness or cracking.  
Vapors may cause drowsiness and dizziness.

#### 4. FIRST AID MEASURES

<b>GENERAL</b>	NOTE! Keep affected person away from heat, sparks and flames! Keep the affected person warm and at rest. Get prompt medical attention.
<b>INHALATION</b>	Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get immediate medical attention! If breathing stops, provide artificial respiration.
<b>EYES</b>	Important! Immediately rinse with water while lifting the eyelids for at least 15 minutes. Rest eyes for 30 minutes.
<b>SKIN</b>	Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water. Get medical attention if irritation persists after washing. Remove affected person from source of contamination.
<b>INGESTION</b>	Promptly have affected person rinse mouth with water, then drink sips of water to remove taste from mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

#### 5. FIRE FIGHTING MEASURES

<b>FLASH POINT (°C)</b>	17 deg C CC (Closed cup).
<b>FLAMMABILITY IN AIR</b>	3.3-19 % volume
<b>EXTINGUISHING MEDIA</b>	Water fog, alcohol resistant foam, carbon dioxide (CO <sub>2</sub> ), or dry chemical.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Keep run-off water out of sewers and water sources. Dike for water control. If water pollution occurs, notify appropriate authorities. Use water SPRAY only to cool containers! Do not put water on leaked material. Move container from fire area if it can be done without risk. As in any fire, wear self-contained breathing apparatus (pressure demand, MSHA/NIOSH approved or equivalent) and full protective gear.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS</b>	May explode when heated or when exposed to flames or sparks. Solvent vapors may form explosive mixtures with air. Vapors are heavier than air and may spread near ground to sources of ignition. Vapors may travel considerable distance to source of ignition and flash back. As in any fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and possibly toxic hydrocarbons may be formed.

## 6. ACCIDENTAL RELEASE MEASURES

### SPILL CLEAN-UP PROCEDURES

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Cleanup personnel must be trained for the particular task. Cleanup personnel should use respiratory and/or liquid contact protection. Prevent release to drainage.

For small spills < 1 quart: Absorb liquid with absorbant material such as paper towel or other dry material. Transfer to safe place such as hood extraction to allow vapor to evaporate and absorbent to dry. Dispose of as flammable waste.

For large spills: Confine spillage and absorb with dry, noncombustible absorbent materials and sweep into a sealed container for proper disposal. Notify appropriate authorities. Waste resulting from clean up operations may be classified as hazardous. Consult with appropriate authorities to ensure safe and proper disposal of all waste in accordance with applicable federal, state and local regulation.

## 7. HANDLING AND STORAGE

### HANDLING PRECAUTIONS

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Solvent vapors are released during application and drying. Use safety glasses and recommended gloves when handling hazardous chemicals. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

### HANDLING DESCRIPTION

Vapors are heavier than air and may spread along floors to form explosive mixtures with air. High vapor levels may occur during printer cleaning operation. Dried ink may be combustible, do not allow dried ink to accumulated on or around the printer. Containers of this product may be considered hazardous when empty. Consult your company safety office or local authority for regulatory guidance on the proper storage, use and disposal of this material.

### STORAGE PRECAUTIONS

Avoid sources of ignition and a build up of static electricity. Keep in cool, dry, ventilated storage and closed containers. Storage and handling of this chemical is controlled by official regulations. Flammable/combustible - Keep away from oxidizers, heat and flames. Ground container and transfer equipment to eliminate static electric sparks.

### STORAGE CRITERIA

Flammable liquid storage.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

COMPONENT	STD	PEL	STD	TLV
ETHANOL	OSHA	1000	ACGIH	1000
ISOPROPANOL	OSHA	400	ACGIH	400
ACETONE	OSHA	750	ACGIH	750

### PROTECTIVE EQUIPMENT



#### PROCESS CONDITIONS

Provide eyewash station. Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s)

#### VENTILATION

Well ventilated area.

#### RESPIRATORS

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).

#### PROTECTIVE GLOVES

Use protective gloves made of: Polyvinyl alcohol (PVA). Nitrile. P.T.F.E. (Teflon).

#### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

#### PROTECTIVE CLOTHING

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

#### HYGIENIC WORK PRACTICES

DO NOT SMOKE IN WORK AREA! Promptly remove any clothing that becomes wet or contaminated. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE/PHYSICAL STATE</b>	Mobile, Liquid.
<b>COLOR</b>	Black liquid.
<b>ODOR</b>	Solvent.
<b>SOLUBILITY DESCRIPTION</b>	Partially miscible in water
<b>BOILING POINT</b>	78 C
<b>VAPOR PRESSURE</b>	44 mmHg @ 20 C
<b>VAPOR DENSITY (air=1)</b>	> 1
<b>VOC</b>	7.0 g/kg
<b>SPECIFIC GRAVITY</b>	.797
<b>VISCOSITY (interval)</b>	approx 1 cps
<b>AUTO IGNITION</b>	422 C
<b>MELTING POINT</b>	-130 C

## 10. STABILITY AND REACTIVITY

<b>STABILITY</b>	Stable under normal temperature conditions.
<b>CONDITIONS TO AVOID</b>	Avoid contact with strong oxidizers.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Fire creates: Toxic gases/vapors/fumes of: Carbon Monoxide (CO). Carbon Dioxide (CO <sub>2</sub> ).

## 11. TOXICOLOGICAL INFORMATION

<b>HEALTH WARNINGS</b>	
<b>EYE CONTACT</b>	Minimal to severe.
<b>INGESTION</b>	Narcotic effect.
<b>INHALATION</b>	CNS depressant. Prolonged inhalation of high concentrations may damage respiratory system.

<b>SKIN CONTACT</b>	Slight erythema.
<b>ROUTES OF ENTRY</b>	Ingestion. Skin absorption. Inhalation.
<b>MEDICAL SYMPTOMS</b>	<b>NERVOUS SYSTEM:</b> Drowsiness, dizziness, disorientation, vertigo and mild intoxication (including fatigue, lassitude, irritability, headache and nausea).

## 12. ECOLOGICAL INFORMATION

<b>ECOTOXICITY</b>	Little danger to the environment.
<b>DEGRADABILITY</b>	Will degrade.
<b>ACUTE FISH TOXICITY</b>	May be harmful to aquatic organisms in large quantities.

## 13. DISPOSAL CONSIDERATIONS

<b>DISPOSAL METHODS</b>	Used or expired printing ink and printing ink related material may be classified as hazardous waste. Consult with appropriate authorities and contractors to ensure safe and proper disposal of all hazardous waste in accordance with federal, state and local regulations.
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## 14. TRANSPORT INFORMATION

<b>CLASSIFICATION COMMENT</b>	UN 1210
<b>DOT PROPER SHIPPING NAME</b>	Printing Ink Related Materials
<b>DOT HAZARD CLASS</b>	3
<b>LABEL FOR TRANSPORT</b>	



<b>U.S. DOT HAZARD LABEL</b>	Flammable Liquid
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<b>TDRG SHIPPING NAME</b>	Printing Ink Related Material
<b>SEA TRANSPORT NOTES</b>	Class 3, Packing Group II
<b>AIR TRANSPORT NOTES</b>	Class 3, Packing Group II

## **15. REGULATORY INFORMATION**

### **US STATE REGULATIONS**

#### **WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHIMIS**

## **16. OTHER INFORMATION**

**DATE** November 1, 2006

**DISCLAIMER** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of Citronix's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.