

# MATERIAL SAFETY DATA SHEET

**U-MARK, Inc.**

Revision Date: August 12, 2010

**PRODUCT NAME: UZ ALCOHOL-BASED INK JET INK**

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## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: UZ Alcohol-based Ink Jet Ink

General Use: Jet Printer Ink for all surfaces.

Product Color: Black, Red, Blue, Green

U-Mark, Inc., 102 Iowa Ave., Belleville, IL 62220

**24-hour Emergency Phone: Infotrac 1-800-535-5053 (within the USA and Canada), 1-352-323-3500 (International)**

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS No.	% by Wt.	Exposure Limits (ppm)	
			OSHA TWA	ACGIH TWA
Ethyl Alcohol	64-17-5	75-90	1000	1000
Isopropyl Alcohol	67-63-0	5-10	400	400

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## HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW: Flammable liquids and vapor. May cause eye, skin and respiratory tract irritation. Overexposure may cause dizziness or drowsiness.**

### POTENTIAL HEALTH EFFECTS:

**INHALATION:** Excessive inhalation may cause irritation of the nose and respiratory tract and Central Nervous System effects such as headache, dizziness and drowsiness.

**EYE CONTACT:** May cause irritation, redness, tearing, blurred vision.

**SKIN CONTACT:** May cause mild irritation, defatting of the skin and dermatitis.

**INGESTION:** Can cause gastrointestinal irritation, nausea and vomiting, diarrhea, dizziness.

**CHRONIC:** Contains no materials listed as cancer causers by NTP, IARC, or OSHA. Long term overexposure may cause liver damage, anemia, reproductive effects.

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## 4. FIRST AID MEASURES

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

**SKIN CONTACT:** Wash with soap and water. Remove contaminated clothing.

**INGESTION:** Get medical attention immediately. Do not induce vomiting.

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## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Flash Point: 56°F (13°C)

Method: TCC

Flammable Limits: 3.53 to 21.2% vol. in air

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>.

**EXTINGUISHING MEDIA:** Alcohol foam, dry chemical, CO<sub>2</sub>.

**FIRE FIGHTING INSTRUCTIONS:** Use self-contained breathing apparatus and full protective clothing for large or indoor fires. Use water spray to cool containers.

**6. ACCIDENTAL RELEASE MEASURES**

Remove all ignition sources and ventilate area. Absorb spilled material, and place in a container for disposal (e.g. incineration). Dispose of in accordance with all Federal, state and local regulations

**7. HANDLING AND STORAGE**

**HANDLING:** Wash thoroughly after handling.

**STORAGE:** Store away from heat, sparks, or flames. Lids must be well secured.

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** General ventilation is recommended to keep vapors below exposure limits.

**RESPIRATORY PROTECTION:** Use a NIOSH/MSHA approved respirator equipped for organic vapors if exposure limits are exceeded.

**SKIN PROTECTION:** Wear impervious gloves if hand contact is anticipated.

**EYE PROTECTION:** Chemical splash goggles should be used when working with chemicals.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Range: 173° - 181°F (78° - 83°C)

Vapor Density: 1.6 (air = 1)

Solubility in Water: Complete

Weight/Gallon: 6.6 lbs.

Odor: Alcohol

Melting Point: Not Applicable

Appearance: Black Liquid

Specific Gravity: 0.79

VOC: 900 g/l

% Volatile by Vol.: >99%

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** (Conditions to avoid) None

**INCOMPATIBILITY:** Strong oxidizing agents and strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

Ethyl Alcohol: LD<sub>50</sub> 7.06g/kg (oral, rat); LC<sub>50</sub> 20,000 ppm (10H, rat).

Isopropyl Alcohol: LD<sub>50</sub> 5045mg/kg (oral, rat), 12.8g/kg (skin, rabbit); LC<sub>50</sub> 16,000 ppm (4H, rat).

**12. ECOLOGICAL INFORMATION**

None available on this product.

**13. DISPOSAL CONSIDERATIONS**

See Section 6. Waste materials would be considered Code D001 (Characteristic - Ignitability)

**14. TRANSPORT INFORMATION**

IATA, IMDG, DOT: Printing Ink, 3, UN1210, PG II;

USA Ground (Quarts or less): Consumer Commodity, ORM-D.

**15. REGULATORY INFORMATION**

EPCRA (SARA) Sec. 313 Reportable Materials: None

**TSCA:** All components are listed in the TSCA Inventory.

**16. OTHER INFORMATION**

HMIS Hazard Ratings: Health 2, Fire 3, Reactivity 0

NFPA Hazard Ratings: Health 2, Fire 3, Reactivity 0

(4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = least)

**Caution!**

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