

# MATERIAL SAFETY DATA SHEET

**U-MARK, Inc.**

Rev. Date: October 16, 2009

**PRODUCT NAME: AP Fine Line, AP-1 All Purpose Ink Markers**

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: AP Fine Line and AP-1 All Purpose Markers

General Use: Marking on Most Surfaces

Product Color: Black, Blue, Green, Red, Violet.

**U-Mark, Inc., 102 Iowa Avenue, Belleville, IL 62220 USA tel. 618-235-7500**

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

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm)	
			OSHA TWA	ACGIH TWA
Propan-1-ol	71-23-8	<45	400	400
Ethyl Alcohol	64-17-5	<45	1000	1000
Ethylene Glycol Mono-n-Propyl Ether	2807-30-9	<5	20	20

## 3. HAZARDS IDENTIFICATION

**These products contain less than 20 mL of the ink listed on this MSDS. Based on CFR 29, 1910.1200 OSHA Hazard Communication Evaluation, these products meet the definition of an "article" and they are not subject to the hazards normally associated with the ink when used as intended.**

**EMERGENCY OVERVIEW: Avoid contact with eyes and skin. Avoid inhalation of mist or vapor.**

### POTENTIAL HEALTH EFFECTS:

**INHALATION:** Can cause nasal or respiratory tract irritation.

**EYE CONTACT:** Avoid contact with eyes. May cause severe irritation.

**SKIN CONTACT:** May cause irritation. Wash thoroughly after handling.

**EFFECTS OF OVEREXPOSURE:** Can cause central nervous system effects including fatigue, dizziness, headache, nausea and vomiting. Intentional misuse of this product may be harmful or fatal.

**CHRONIC:** Does not contain materials listed as cancer causative agents by NTP, IARC, or OSHA.

## 4. FIRST AID MEASURES

**INHALATION:** Remove to fresh air. Call a physician in case of complaints.

**EYE CONTACT:** Flush opened eye with plenty of running water for fifteen minutes. Call a physician if irritation persists.

**INGESTION:** Do not induce vomiting. Call a physician. Wash out mouth with water if person is conscious.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Flash Point: 73°F (23°C), Method: TCC, Flammable Limits: LEL 2.1% UEL 13.5%

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam and ABC powder.

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILL:** Eliminate all sources of ignition. Spills should be contained absorbed with liquid-binding material, and placed in a leak proof container. Liquid should be disposed of according to all Federal, State and local regulations.

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**7. HANDLING AND STORAGE**

HANDLING: Keep containers closed when not in use. Keep out of reach of children.

STORAGE: Store in a cool, well-ventilated area away from heat, sparks, or flames.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Not required for normal use. Local and general exhaust should minimize any exposure.

RESPIRATORY PROTECTION: Use a suitable NIOSH/MSHA respiratory device in case of insufficient ventilation or if exposure limits are exceeded

SKIN PROTECTION: Not required for minor contact. Wash hands before breaks and at end of work. .

EYE PROTECTION: Not required under normal use. Wear chemical splash goggles if splashing is anticipated.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

ODOR: Alcohol.

BOILING POINT 96 °C (205° F)

APPEARANCE: Colored, opaque liquid.

SPECIFIC GRAVITY 0.931

IGNITION TEMPERATURE: 360° C (680° F)

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**10. STABILITY AND REACTIVITY**

THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED: No decomposition if used according to specifications.

DANGEROUS REACTIONS: Reacts with acids, alkalis and oxidizing agents.

DANGEROUS PRODUCTS OF DECOMPOSITION: Nitrogen Oxides, Carbon Monoxide and carbon dioxide.

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**11. TOXICOLOGICAL INFORMATION**

CAS # 71-238 Propan-1-ol: LD/LC50 values Oral 1870 mg/kg (Rat); Dermal 5040 mg/kg. (Rabbit)

CAS # 64-17-5 Ethyl Alcohol LD/LC50 values Oral 7060 mg/kg (Rat), Dermal 6300 mg/kg (Rabbit)

CAS # 2807-30-9 Ethylene Glycol Mono-n-Propyl Ether LD/LC50 Oral 3089 mg/kg (Rat), Dermal 1000-5000 mg/kg (Guinea Pig)

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**12. ECOLOGICAL INFORMATION**

Not available

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**13. DISPOSAL CONSIDERATIONS**

Disposal must be made according to Federal, State and Local laws.

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**14. TRANSPORT INFORMATION**

U.S. Hazardous Material Regulation (DOT49CFR): Not regulated per 49 CFR 49 § 173.4

Canadian Transportation of Dangerous Goods (TDG) : Not regulated.

IMDG: Not regulated. ICAO/IATA: Not regulated.

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**15. REGULATORY INFORMATION**

EPCRA (SARA) Sec. 313 Reportable Materials: None: All components are listed in TSCA Inventory.

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**16. OTHER INFORMATION**

HMIS and NFPA Ratings: Health 1, Flammability 1, Reactivity 0 (4= extreme, 3 high, 2 moderate, 1 slight, 0 least)

**Caution!**

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