

MATERIAL SAFETY DATA SHEET

U-MARK, Inc.

revision date: August 11, 2011

PRODUCT NAME: AP-2 CHISEL TIP PERMANENT MARKER- BLACK ONLY

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: AP-2 Chisel Tip Permanent Marker
General Use: Marking on Most Surfaces
Product Color: Black

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

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Note: AP-2 contains less than 20 ml. of the ink listed on this MSDS. Based on CFR 29, 1910.1200 OSHA Hazard Communication Evaluation, this products meets the definition of an "article" and is not subject to the hazards normally associated with the ink when used as intended.

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm)	
			OSHA TWA	ACGIH TWA
Ethanol	64-17-5	50 - 100	1000	1000
1-Methoxy-2-propanol	107-98-2	2.5-10	150	150

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This ink is classified as non-toxic per ASTM D4236

POTENTIAL HEALTH EFFECTS:

INHALATION: May cause dizziness.

EYE CONTACT: May irritate eyes

SKIN CONTACT: May irritate skin

INGESTION: May irritate digestive tract

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

4. FIRST AID MEASURES

INHALATION: Remove to fresh air.

EYE CONTACT: Flush with plenty of water for fifteen minutes. Consult a physician if symptoms persist

SKIN CONTACT: Wash with soap and water.

INGESTION: Consult a physician

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: Flash Point: 13°C (55°F) Method: TCC

Flammable Limits: LEL 1.7% UEL 15.0% Auto-ignition Temperature: product is not self igniting.

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂.

EXTINGUISHING MEDIA: Alcohol foam, dry chemical, CO₂.

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus and full protective clothing when large amounts are involved.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: not applicable. Dispose of in accordance with all Federal, State and local laws.

7. HANDLING AND STORAGE

HANDLING: Keep markers capped when not in use.

STORAGE: Store in a cool, dry location.

8. EXPOSURE CONTROL / PERSONAL PROTECTION**ENGINEERING CONTROLS:** Not required in normal use**RESPIRATORY PROTECTION:** Not required in normal use.**SKIN PROTECTION:** Not required in normal use.**EYE PROTECTION:** Not required in normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 78°C (172°F)

VAPOR PRESSURE AT 20°C (68°F): 59 hPa (44 mm Hg)

SOLUBILITY IN WATER: not miscible

VOC: NOT AVAILABLE

ODOR: Alcohol

MELTING POINT: N/A

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: not determined

% VOLATILE BY VOLUME: 76.2%

APPEARANCE: Colored, opaque liquid.

10. STABILITY AND REACTIVITY**CHEMICAL STABILITY:** Stable.**CONDITIONS TO AVOID:** None**INCOMPATIBILITY:** Strong oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO₂.**HAZARDOUS POLYMERIZATION:** Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes, on the eye: Irritating effect. Sensitization: No sensitizing effects known.

Additional toxicological information: the product shows the following dangers according to internally approved calculation methods for preparations: Irritant

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable Federal, State and local regulations.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

All Components are listed in the TSCA inventory.

16. OTHER INFORMATION

HMIS Hazard Rating: Health 1, Fire 0, Reactivity 0

NFPA Hazard Rating: Health 1, Fire 0, Reactivity 0

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

Caution!

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