

MATERIAL SAFETY DATA SHEET

U-MARK, Inc.

Rev. Date: February 9, 2012

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

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Identifier: AP-2 Chisel Tip Permanent Marker

General Use: Marking on Most Surfaces

Product Color: Red

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

Ingredients	CAS No.	Wt./Wt. & Less Than	Exposure Limits	
			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 as intended.

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

POTENTIAL HEALTH EFFECTS:

INHALATION: Can cause nasal and respiratory tract irritation.

EYE CONTACT: Avoid contact with eyes. May cause 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: 73oF (23° C), Method: TCC - Flammable Limits: LEL 2.1% UEL 13.5 %

EXTINGUISHING MEDIA: CO2, 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 according to all Federal, State and Local regulations.

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.

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.

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)

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 COMPOSITION: Nitrogen Oxides, Carbon Monoxide and carbon dioxide.

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)

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

U.S. Hazardous Material Regulations (DOT49CFR): GROUND: This product conforms to 49 CFR 173.4 for domestic highway and rail transport only. AIR: Conforms to 49 CFR 173.4.a. Excepted quantity of flammable liquid, see 49 CFR 1.73.4.a for details and restrictions.

IATA: Excepted quantity of flammable liquid; see IATA Dangerous Goods Regulations for details and quantity restrictions.

IMDG: Excepted quantity of flammable liquids: see IMDG regulations for details and quantity restrictions.

15. REGULATORY INFORMATION

EPCRA (SARA) Sec. 313 Reportable Materials: None. TSCA: All components are exempt. This product does not contain a chemical known to the State of California to cause cancer.

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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