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THE MARKERBOARD PEOPLE

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HEALTH 1
FLAMMABILITY 3
REACTIVITY 0
Personal Protection H

Material Safety Data Sheet

Latest Revision Date: 1-1-99

Section I Product Identification

Product Name: Ultra Low Odor Fine Point Dry Erase Marker

The above product meets the requirements of the Federal Hazardous Substances Labeling Act exemption for pens and markers because it is a porous-tip ink-marking device constructed so that a) the ink is held within an absorbent material so that no free liquid is within the device, b) under reasonably foreseeable conditions of manipulation and use the ink will emerge only through the porous writing nib, and c) the device has a capacity of not more than 10 grams of ink which has a single dose oral LD50 of more than 2.5 g/kg of body weight of the test animal. The information on this MSDS refers to the inks used in the above named markers and it applies to handling these inks in bulk.

Ink Name: The Markerboard People Ultra Low Odor Dry Erase Inks

Chemical Family: Mixture

Formula: Trade Secret

Section II Ingredients

Ingredient	Percent By Weight
Ethanol	25 - 100
Isopropanol	0 - 15
1 Methoxy-2-Propanol	0 - 30
Pigment and Resin	5 - 10
Additives	1 - 5
Release Agent	0 - 10

*Carol
Facilities*

Section III Physical Data

Boiling Point (degrees F)	174 for ethanol
Vapor Pressure (mmHg)	25 at 20 degrees C for ethanol
Vapor Density (Air = 1):	1.5 for ethanol
Specific Gravity:	0.83 to 0.88
Percent Volatile By Volume:	60 to 98
Evaporation Rate:	2.0 (butyl acetate = 1) for ethanol
Solubility In Water:	Partial
Appearance And Odor:	Colored liquid, alcoholic

Section IV Fire And Explosion Hazard Data

Flash Point (Method Used): 63 Degrees (TCC) for ethanol
Lower Explosion Limit: 4.3% for ethanol
Upper Explosion Limit: 19.0 for ethanol

Extinguishing Media: Alcohol foam, carbon dioxide, or dry chemical

Special Fire Fighting Procedure: Use self contained breathing apparatus and protective clothing

Unusual Fire And Explosion Hazards:

Section V Hazardous Ingredients

Ingredient	CAS #	Percent By Weight	Exposure Limit
Ethanol	64-17-5	25 to 100	1000 ppm TWA (ACGIH)
Isopropanal	67-63-0	0-15	400 ppm TWA; 500 ppm STEL(ACGIH)
1 Methoxy-2-Propanol	107-98-2	0-30	100 ppm TWA (NIOSH)

Section VI Health Hazard Data

Threshold Limit Value: Not established

Effects Of Overexposure: (Not established but inferred from information supplied for each of the ingredients)

Eye: Irritation possible

Skin: Prolonged contact can cause irritation, defatting, or dermatitis.

Inhalation: May Cause dizziness, drowsiness, nausea, or vomiting.

Ingestion: Dizziness, drowsiness, decreased reaction, nausea, or vomiting.

Section VII First Aid And Emergency Procedures For Overexposure

(Based on information supplied for various ingredients)

Eye Contact: Flush with large amounts of water for 15 minutes. Call a physician.

Skin Contact: Wash with soap and water. Remove and launder contaminated clothing.

Inhalation: Remove to fresh air. Consult a physician if symptoms persist.

Ingestion: Obtain immediate medical attention. Do not induce vomiting.

Section VIII Reactivity Data

Conditions Contributing To Instability: None found for ethanol, isopropanol.

Incompatibility: Avoid heat, sparks, flame, strong oxidizers, and reducing agents.

Hazardous Reactions and Decompositions Products: Burning may produce carbon monoxide and/or carbon dioxide.

Conditions Contributing to Hazardous Polymerization: Cannot occur. The Markerboard People Ultra Low Odor Dry Erase Inks

Section IX Spills or Leak Procedures

Spill Or Leak Procedures: Collect in absorbent material and place in hood.

Waste Disposal Procedures: Allow fumes to evaporate in hood and dispose of absorbent material as solid waste.

Section X Personal Protection

Eye Protection: Safety glasses for splash protection.

Skin Protection: Chemically resistant clothing to prevent excessive contact.

Respiratory Protection: Self-contained breathing apparatus where recommended TLV's are exceeded.

Ventilation: General or local to maintain exposures below recommended TLV's.

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