TB18564 TB18567 TB18565 TB18568 ARKERBOARD PEOPLES

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1 HEALTH 3 FLAMMABILITY 0 REACTIVITY **Personal Protection**

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

Ethanoi	25 – 100
Isopropanol	0 – 15
1 Methoxy-2-Propanol	0 – 30
Pigment and Resin	5 – 10
Additives	1 – 5
Release Agent	0 – 10

Physical Data Section III

Boiling Point (degrees F) Vapor Pressure (mmHg) Vapor Density (Air = 1): Specific Gravity: Percent Volatile By Volume: **Evaporation Rate:** Solubility In Water: Appearance And Odor:

174 for ethanol 25 at 20 degrees C for ethanol 1.5 for ethanol 0.83 to 0.88 60 to 98 2.0 (butyl acetate = 1) for ethanol Partial Colored liquid, alcoholic

Fire And Explosion Hazard Data

Flash Point (Method Used):

Lower Explosion Limit: Upper Explosion Limit: 63 Degrees (TCC) for ethanol

4.3% for ethanol

19.0 for ethanol

Extinguishing Media:

Alcohol foam, carbon dioxide, or dry chemical

Special Fire Fighting Procedure:

Use self contained breathing apparatus and

protective dothing

Unusual Fire And Explosion Hazards:

Section V Hazardous Ingredients

CAS #

Percent

By Weight

Exposure Limit

Ethanol

64-17-5

25 to 100

1000 ppm TWA (ACGIH)

Isopropanal

Ingredient

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)

Eve:

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 dothing.

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 furnes 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:

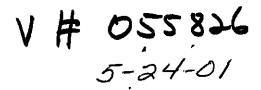
Chemically resistant dothing to prevent excessive contact.

Respiratory Protection:

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

Ventilation:

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



The Markerboard People Ultra Low Odor Dry Erase Inks