



## HILLSBORO ELEMENTARY SCHOOLS

 715 S.E. 12th Ave.  
HILLSBORO, OR 97123

MATERIAL SAFETY DATA SHEET

OT 0037

NAME: EL MARKO PERMANENT MARKER (FLAIR)

CAS NO: NA

REVISION 1

Effective Date: February 1, 1985

## A - IDENTIFICATION

Composition*  Dyes Solvents Methyl Cellosolve® (109-86-4) n-Hexyl Carbitol® (112-59-4)	%	Formula: NA
		Molecular Weight: NA
		Synonyms El Marko Permanent Markers - Brown, Green, Orange, Purple, Red and Yellow

## B. - PHYSICAL DATA

Boiling Point 258 °F 124.4 °C	Melting Point -121 °F -87 °C	Freezing Point NA °F NA °C
Specific Gravity (H <sub>2</sub> O=1) 0.966	Vapor Density (air=1) 2.62	Vapor Pressure @ (20°C) 68 °F 6.2 mmHg
Evaporation (Butyl Acetate =1) 0.5	Saturation in Air (by volume @ °F) NA %	Autoignition Temperature 550 °F 288 °C
% Volatiles (by volume) NA	Solubility in Water Miscible	pH NA

Appearance/Odor Liquid with mild non-offensive odor

Flash Point and Test Method(s) 102°F (CC); 115°F (OC)

Flammable Limits in Air (% by volume) Lower 2.5 % Upper 19.8 %

## C. - REACTIVITY

Stability	Conditions to Avoid	Polymerization	Conditions to Avoid
stable X	NA	may occur	NA
unstable		will not occur X	
Incompatible Materials	NA	Hazardous Decomposition Products	NA

\*IF MULTIPLE INGREDIENTS INCLUDE CAS NUMBERS FOR EACH

NA-NOT AVAILABLE

Footnotes: Physical Data given for Methyl Cellosolve®

**D. - HEALTH HAZARD DATA****Occupational Exposure Limits (PEL'S, TLV'S, etc.)**

None established for product. 8 hr. TWA for Methyl Cellosolve<sup>®</sup> is 25 ppm (OSHA), 5 ppm (ACGIH). (Skin notations).

**Warning Signals**

NA

**Routes/Effects of Exposure****1. Inhalation**

None anticipated under normal use conditions.

**2. Ingestion**

None anticipated under normal use conditions. If misused, as sucking tip end of marker for extended period of time, some irritation/discomfort may occur.

**3. Skin****a. Contact**

Contact will dye skin.

**b. Absorption**

None anticipated under normal use conditions. If large amounts of product come in contact with skin possibility of absorption may exist but not in toxic amounts.

**4. Eye Contact**

None under normal use conditions. If product contacts eye can expect some conjunctival/corneal irritation.

**5. Other**

NA

**E. - ENVIRONMENTAL IMPACT****1. Applicable Regulations****2. DOT Hazard Class -**

NA

**3. DOT Shipping Name -****Environmental Effects**

NA

**Engineering Controls**

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None under normal use conditions.

**Eye Protection**

None under normal use conditions.

**Skin Protection**

None under normal use conditions.

**Respiratory Protection**

None under normal use conditions.

**Other**

Product is considered safe when used under normal use conditions.

**G. - WORK PRACTICES**

**Handling and Storage**

Keep cap on marker to prevent solvent evaporation.

**Normal Clean Up**

Wipe up with tissue, towel, etc. and discard with trash.

**Waste Disposal Methods**

Dispose as trash.

Steps to be taken if material is released to the environment or spilled in the work area

Not applicable

Fire and Explosion Hazard

Flammable. If large amounts are involved plastic may also give off hazardous decomposition products.

Extinguishing Media

CO<sub>2</sub>, Foam, Dry Chemical

Firefighting Procedures

If large amounts of product are involved use self-contained breathing apparatus and other protective gear.

**1. - FIRST AID AND MEDICAL EMERGENCY PROCEDURES**

Eyes

Flush eyes immediately with water for at least five minutes. If irritation persists consult physician.

Skin

Wash with soap and water. Ink stain will eventually wear off.

Inhalation

None for normal use conditions.

Ingestion

Wash mouth out with water. Consult physician if irritation/discomfort persists.

Notes to Physician

NA

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.