



Gillette Medical Evaluation Laboratories # 98150- 98159

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MATERIAL SAFETY DATA SHEET

NAME: PAPER MATE FLAIR!/METAL ROLLER PENS

CAS NO: NA

Effective Date: 12/16/91

Rev: NA

A. - IDENTIFICATION

Composition* Solvents (see footnotes) Water (7732-18-5) Ethylene Glycol (107-21-1) Glycerin (56-81-5) Diethylene Glycol (111-46-6) Dyes Buffer, Surfactant, Preservative	%	Formula: Mixture
		Molecular Weight: NA
		Synonyms Flair! Point Guard; Ultra Fine Flair!; Hardhead Flair!/Metal Rollers (Black, Blue, Red, Green, Orange, Brown, Purple)

B. - PHYSICAL DATA

Boiling Point NA °F NA °C	Melting Point NA °F NA °C	Freezing Point NA °F NA °C
Specific Gravity (H ₂ O=1) ~ 1	Vapor Density (air=1) NA	Vapor Pressure @ _____ °F As water _____ mmHg
Evaporation (_____ =1) As water	Saturation in Air (by volume @ _____ °F) NA %	Autoignition Temperature _____ °F _____ °C NA
% Volatiles (by volume) > 80	Solubility in Water Soluble	pH NA

Appearance/Odor Colored liquids with mild odors

Flash Point and Test Method(s) > 200°F for solvents

Flammable Limits in Air (% by volume) Lower NA % Upper NA %

C. - REACTIVITY

Stability	Conditions to Avoid	Polymerization	Conditions to Avoid
stable X	Extreme heat, ignition sources	may occur	NA
unstable		will not occur X	
Incompatible Materials	Hazardous Decomposition Products		
Oxidizing and reducing agents	Thermal decomposition may produce carbon monoxide and other toxic byproducts.		

*IF MULTIPLE INGREDIENTS INCLUDE CAS NUMBERS FOR EACH NA=NOT AVAILABLE

Footnotes:
Individual inks contain water and one or more of the three remaining solvents.

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D. — HEALTH HAZARD DATA

Occupational Exposure Limits (PEL'S, TLV'S, etc.)

8-hour Time-Weighted Average Limits: Ethylene Glycol (Vapor) - 50 ppm ceiling;
Glycerin mist - 10 mg/cu m (OSHA/ACGIH). These levels are not anticipated under normal use conditions.

Warning Signals

NA

Routes/Effects of Exposure

1. Inhalation

No adverse effects anticipated from normal use.

2. Ingestion

No adverse effects anticipated from normal use. If misused, as sucking tip end of pen for extended period of time, some local irritation/discomfort may occur.

3. Skin

a. Contact

Contact will temporarily dye skin.

b. Absorption

No adverse effects anticipated from normal use. For incidental contact with skin, possibility of absorption exists, but not in toxic amounts.

4. Eye Contact

No adverse effects anticipated from normal use. If product contacts eye, can expect some conjunctival/corneal irritation.

5. Other

NA

E. — ENVIRONMENTAL IMPACT

1. Applicable Regulations

2. DOT Hazard Class —

3. DOT Shipping Name —

NA

Environmental Effects

NA

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F. — EXPOSURE CONTROL METHODS:

Engineering Controls

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 non-hazardous when used under normal use conditions.

G. — WORK PRACTICES:

Handling and Storage

Keep cap on pen to prevent solvent evaporation.

Normal Clean Up

Wipe up with tissue, towel, etc.

Waste Disposal Methods

Dispose in accordance with local, state and federal regulations.

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H. - EMERGENCY PROCEDURES

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

Not applicable

Fire and Explosion Hazard

Hazardous decomposition products may be released in a fire (Sec. C).

Extinguishing Media

As appropriate for surrounding area. CO₂, Foam, Dry Chemical, Water Fog.

Firefighting Procedures

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

I. - 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.

Inhalation

None for normal use conditions.

Ingestion

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

Notes to Physician

Pen fill volume is about 2 ml or less.

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.