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MATERIAL SAFETY DATA SHEET

NAME: LIQUID PAPER CORRECTION FLUID (COLORS, LPCF-17)

CAS NO: NA

Effective Date: 12/10/98 **Rev:** 4

A. — IDENTIFICATION

<u>Composition*</u>	%	Formula: Mixture
Methylcyclohexane (108-87-2)		Molecular Weight: NA
Titanium Dioxide (13463-67-7)		Synonyms: Colored Correction Fluid
Mineral Spirits (64742-48-9)		
Resin, Dispersant, Colorant(s)		
Mustard Oil (57-06-7)		
Masking Fragrance		

B. — PHYSICAL DATA

Boiling Point ~212 °F ~100 °C	Melting Point NA °F NA °C	Freezing Point NA °F NA °C
Specific Gravity (H ₂ O=1) ~1.3	Vapor Density (air=1) 3.4	Vapor Pressure @ 100 °F 83 mm Hg
Evaporation (Butyl Acetate =1) >1	Saturation in Air (by volume @ °F) NA	Autoignition Temperature °F °C NA
% Volatiles ~40	Solubility in Water Negligible	pH NA

Appearance/Odor Colored fluid with a pungent solvent odor

Flash Point and Test Method(s) 25°F (Closed Cup) for product

Flammable Limits in Air (% by volume) Lower 1.2 % Upper 6.7 %

C. — REACTIVITY

Stability <input checked="" type="checkbox"/> stable <input type="checkbox"/> unstable	Polymerization <input type="checkbox"/> may occur <input checked="" type="checkbox"/> will not occur
<u>Conditions to Avoid</u> Product is flammable. Avoid contact with open flame or other ignition sources.	<u>Conditions to Avoid</u> NA
<u>Incompatible Materials</u> Strong oxidizers	<u>Hazardous Decomposition Products</u> Thermal degradation may produce oxides of carbon and nitrogen and various hydrocarbons.

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

Footnotes

Physical data, except Specific Gravity and % Volatiles, refers to Methylcyclohexane.

D. — HEALTH HAZARD DATA

Occupational Exposure Limits PEL's, TLV's, etc.)

8-Hour TWA's: Methylcyclohexane - 400 ppm (ACGIH)

Titanium Dioxide - 10 mg/cu m (OSHA/ACGIH)

Mineral Spirits - 300 ppm (Manufacturer recommendation)

These levels are not anticipated under foreseeable use conditions.

Warning Signals

NA

Routes/Effects of Exposure

1. Inhalation No adverse effects anticipated from normal use. If vapors are deliberately concentrated and inhaled (abuse), the following symptoms may occur: respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, convulsions, cardiac sensitization, coma and death. (Mustard oil is added to the product as an abuse deterrent.)
2. Ingestion No adverse effects anticipated from normal use. Depending on amount ingested, most of the symptoms described above may occur. Estimated LD₅₀ in rats is greater than 5 ml/kg or between 1 pint and 1 quart in humans (ref. Gosselin, Smith and Hodge, Clinical Toxicology of Commercial Products, 5th Ed., 1984). Aspiration may result in chemical pneumonitis.
3. Skin
 - a. Contact
No adverse effects anticipated from normal use. Irritation may occur if contact is prolonged/repeated.
 - b. Absorption
No adverse effects anticipated from normal use. Solvent can be absorbed through skin (prolonged contact), but not likely in acutely toxic amounts.
4. Eye Contact If splashed into eye, irritation can occur.
5. Other NA

E. — ENVIRONMENTAL IMPACT**1. Applicable Regulations**

2. DOT Hazard Class - ORM-D
3. DOT Shipping Name - Consumer Commodity

Environmental Effects

All components of this product comply with the U.S. Toxic Substances Control Act (TSCA).

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 non-hazardous when used as directed in an office/room with normal air circulation.

G. — WORK PRACTICES

Handling and Storage

Product is flammable. No unusual handling or storage when used as directed; when stored in large quantities (as in warehouse), it should be in a well-ventilated, cool area, away from ignition sources.

Normal Clean Up

Pick up spills with towels, tissues, etc.

Waste Disposal Methods

Dispose in accordance with applicable federal, state and local laws.

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

Product is flammable. May produce hazardous decomposition products.

Extinguishing Media

Dry chemical, foam, carbon dioxide.

Firefighting Procedures

In fires involving large quantities of product, use self-contained breathing apparatus. Cool fire-exposed containers with water fog/spray.

I. — FIRST AID AND MEDICAL EMERGENCY PROCEDURES

Eyes

Flush with plenty of water. If irritation persists, obtain medical attention.

Skin

Wash with soap and water.

Inhalation

No adverse effects anticipated from normal use. In an abuse situation, remove from source of exposure. Treat symptomatically. Oxygen may be administered. Seek medical attention immediately and refer to "Notes to Physician" below.

Ingestion

Consult physician.

Notes to Physician

Contains methylcyclohexane and mineral spirits which, if aspirated, may cause chemical pneumonitis. The inhalation of concentrated vapors may produce cardiac sensitization, contraindicating the use of sympathomimetic agents.

Replaces #1197, Sections A, D revised.

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.