



HILLSBORO ELEMENTARY SCHOOLS 215 S.E. 61h Ave. HILLSBORO, OR 97123

MATERIAL SAFETY DATA SHEET

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sc 0009

## MATERIAL SAFETY DATA SHEET

 NAME: LIQUID PAPER CORRECTION FLUID (WHITE AND COLORS, LPCF-4, LPCF-8, LPCF-9)

 CAS NO: NA

 Effective Date: 8/22/90

 Rev: 1

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Composition* 1,1,1-Trichloroethane (71-55-6) Titanium Dioxide (13463-67-7) Posin(s)		%	Formula: Mixture							
		•	Molecular Weight: NA							
Mineral Spirits (64741-65-7)			Synonyms							
Di(2-ethylhexyl)Phthalate (117-81-7) Mustard Oil (57-06-7)			Liquid	Paper	r					
Colorant(s)			·							
CERTINGER DATAS CARDEN STATES SHALL THE STATES STATES										
Boiling Point	Melting Point			Freez	ing Point	1 	~			
<u></u>	NA	۶		_°c		<u> </u>	<u></u>	_°c		
Specific Gravity (H <sub>2</sub> O=1)	Vapor De	nsity	ity (air=1) Vapor Pressure @68°F					_°F		
<u>~1.7</u>			.5 <u>100</u> mmHg			nHg ·				
Evaporation	Saturation in Air			Autoignition Temperature						
( <u>Ether</u> =1)	(by volume @	%	°F}		_~F NA		°C			
Xolatila //www.										
% Volatiles (by volume) Solub			<1% pH <u>NA</u>							
libita an a	l				l					
Appearance/Odor White or o		WIT	n a punge	ent so	olvent odor	<u> </u>				
Flash Point and >200°F, >93°C (Closed Cup) Product is non-flammable.										
Flammable Limits in Air (See Section	on H.)					•		•		
(% by volume) Lower	NA	_%		Upp	er <u>NA</u>		×			
	<u> </u>	* * •	*****	••	, • • •	*	* <del>*</del> *			
Stability Conditions to Avoid			Polymerization		Conditions to Ave	bid				
stable X other high temperature			may occur NA							
unstable Source.			will not occur X				<u></u>	<u> </u>		
Incompatible Materials For solvent: strong alkalis, Hazardous Decomposition Products Thermal degrada-										
reactive metals (e.g., potassium, sodium, amounts of phosgene, hydrogen chloride and chlorine										
PUPMULTIPLE INGREDIENTS (NOLUDE CAS AUMEERS FOR EACH . NAENOT AVAILABLE										
Footnotes:										
Physical data, except % Volatiles and Specific Gravity, refers to										
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DA - THEALTH HAZARD DATA
Occupational Exposure Limits (PEL'S, TLV'S, etc.) 8 Hour TWA's: 1,1,1-Trichloroethane - 350 ppm (OSHA/ACGIH) Titanium Dioxide - 10 mg/cu m (OSHA/ACGIH) Di(2-ethylhexyl)Phthalate - 5 mg/cu m (DSHA/ACGIH) These levels are not anticipated under foreseeable use conditions
These revers are not anticipated under toreseeable use conditions.
Warning Signals
NA
Routes/Effects of Exposure <ol> <li>Inhalation No adverse effects anticipated from normal use. If vapors are deliberately concentrated and inhaled (abuse), following symptoms may occur: respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, cardiac sensitization (abnormal heartbeat), coma and death. (Mustard oil is added to the product as an abuse deterrent.)</li> <li>Ingestion</li> </ol>
No adverse effects anticipated from normal use. Depending on amount ingested, most of the symptoms described above may occur. Estimated LD <sub>50</sub> in rats is greater than 5 ml/kg or between 1 pint and 1 quart in humans (ref. Gosselin, Smith and Hodge, <u>Clinical Toxicology of Commercial Products</u> , 5th ed., 1984). 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. Estimated LD <sub>50</sub> in rabbits is greater than 5 ml/kg.
4. Eye Contact
Irritation
5. Other
See Statement Below
E, ENVIRONMENTAL IMPAGY
1. Applicable Regulations
NA _
2. DOT Hazard Class – 3. DOT Shipping Name –
Environmental Effects NA
Other: Based on animal feeding studies, Di(2-ethylhexyl)Phthalate or DEHP is listed by IARC and NTP as a possible human cardinogen, if ingested. Normal use of this product would result in no ingestion of DEHP. There is no evidence of cancer due to isolated incidents of ingestion, such as accidental ingestion. A quantitative risk assessment demonstrates that DEHP in Liquid Paper is not a significant risk to humans because of its low concentration and low exposure potential.

	HILLSBORD ELEMENTARY SCHOOLS MATERIAL SAFETY DATA SHEET SC 000
	ALL RECEIPTED CONTROL MANDER STATE CALL STATE S
$\bigcirc$	Engineering Controls
$\mathbf{\circ}$	None under normal use conditions
	None under normal use conditions
	Skin Protection .
	None under normal use conditions
:	Respiratory Protection
	None under normal use conditions
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Q	air circulation.
	Handling and Storage
	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.
	Normal Clean Up
	Pick up spills with towels, tissues, etc.
$\cap$	Waste Disposal Methods
	` Dispose in accordance with applicable federal, state and local laws.

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

Not applicable

Fire and Explosion Hazard	Extinguishing Media
Concentrated vapor of 1,1,1-Trichloroethane can burn, producing hazardous decomposition products (Sec. C).	As for adjacent fire: dry chemical, foam, carbon dioxide, water fog

**Firefighting Procedures** 

In fires involving large quantities of product, use self-contained breathing apparatus.

I = FIRST AID AND MEDICAL EMERGENCY PROCEDURES, Contraction of the second second

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

The formulation contains less than 5% petroleum distillates. Induction of vomiting should be considered at the discretion of the physician. Do not use sympathomimetic agents (e.g., epinephrine) in halogenated hydrocarbon poisoning because of possible induction of ventricular fibrillation.

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.

MSDS-3 (8/88)