



HILLSBORO ELEMENTARY SCHOOLS

215 S.E. 6th Ave.  
HILLSBORO, OR 97123

MATERIAL SAFETY DATA SHEET

SC 0013

## MATERIAL SAFETY DATA SHEET

NAME: THINNER FOR LIQUID PAPER CORRECTION FLUID

CAS NO: NA

Effective Date: 8/22/90 Rev: 4

## A. IDENTIFICATION

Composition*	%	Formula:
1,1,1-Trichloroethane (71-55-6)		Mixture
Mustard Oil (57-06-7)		Molecular Weight: NA
		Synonyms
		Thinner for Liquid Paper Liquid Paper Thinner

## B. PHYSICAL DATA

Boiling Point 165 °F 74 °C	Melting Point NA °F NA °C	Freezing Point NA °F NA °C
Specific Gravity (H <sub>2</sub> O=1) 1.32 @ 25/25°C	Vapor Density (air=1) ~ 4.5	Vapor Pressure @ 68 °F 100 mmHg
Evaporation (Ether =1) Slower	Saturation in Air (by volume @ °F) NA %	Autoignition Temperature °F °C NA
% Volatiles (by volume) 100	Solubility in Water < 1%	pH NA

Appearance/Odor Clear fluid with a pungent solvent odor

Flash Point and Test Method(s) None (Closed Cup) Product is non-flammable.

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

## C. REACTIVITY

Stability		Conditions to Avoid	Polymerization		Conditions to Avoid
stable	X	Contact with open flame or other high temperature sources.	may occur		NA
unstable			will not occur	X	
Incompatible Materials For solvent: strong alkalis/oxidizers; aluminum, zinc and other reactive metals (e.g. potassium, sodium, magnesium).			Hazardous Decomposition Products Thermal degradation, e.g. open flame, can produce small amounts of phosgene, hydrogen chloride and chlorine.		

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

Footnotes:

Physical data refers to 1,1,1-Trichloroethane.

**D. HEALTH HAZARD DATA**

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

8 hour TWA for 1,1,1-Trichloroethane is 350 ppm (OSHA/ACGIH) - This level is 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, cardiac sensitization (abnormal heartbeat), 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 amounts 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).

## 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 LD50 in rabbits is greater than 5 ml/kg.

## 4. Eye Contact

Irritation

## 5. Other

NA

**E. ENVIRONMENTAL IMPACT**

## 1. Applicable Regulations

## 2. DOT Hazard Class —

NA

## 3. DOT Shipping Name —

## Environmental Effects

NA

**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

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.

## 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

Concentrated vapor of 1,1,1-Trichloroethane can burn, producing hazardous decomposition products (Sec. C.).

### Extinguishing Media

As for adjacent fire. Dry chemical, foam, carbon dioxide, water fog.

### Firefighting Procedures

In fires involving large quantities of product self-contained breathing apparatus should be used.

## 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

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.