

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Product Identification

Product Name: Liquid E  
Product Number: 2041E  
Chemical Name: Ethyl Silicate condensed  
Chemical Family: Esters  
CAS Number: Blend

### Company Identification

Tecnadent-Div. of CMP Industries LLC  
413 North Pearl St  
Albany, NY 12207-1311 USA  
(518)-434-3147 (For product information)  
(800)-424-9300 (For emergencies)  
1-800-424-9300 or 1-202-483-7616 (CHEMTREC)

## 2. HAZARDS IDENTIFICATION

```
***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Eliminate all sources of ignition - heat, sparks,
* flame, electricity, impact and friction. Avoid
* inhalation and eye contact.
*
*****
```

### **EYE:**

Causes eye irritation.

### **SKIN:**

Causes skin irritation and dryness.

### **INHALATION:**

High concentrations will cause headaches, nausea, vomiting & coma. Vapors and mist may be irritating to the upper respiratory passages.

### **INGESTION:**

Large quantities may cause nausea and vomiting.



(section 2 continued)

**REPRODUCTIVE HAZARDS:**

None.

**MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:**

Not determined.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**COMPONENT LISTING:**

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
ETHYL SILICATE, CONDENSED	90.0 %	78-10-4

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

As defined under Sara 311 and 312, this product contains materials that are acute hazards.

**4. FIRST AID MEASURES**

**EYE CONTACT FIRST AID:**

Immediately flush eyes with plenty of water. Get medical attention.

**SKIN CONTACT FIRST AID:**

Immediately flush skin with plenty of soap & water.

If cool wax contacts skin, wash with warm soapy water.

**INHALATION FIRST AID:**

Remove to fresh air. If not breathing, give artificial respiration but never to a person convulsing or unconscious.

**INGESTION FIRST AID:**

If swallowed, immediately give 2 glasses of water and induce vomiting by sticking finger down throat.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

TCC Flash Point: 37.0 C (98.6 F)

Autoignition Temperature: N/A



(section 5 continued)

**FLAMMABLE LIMITS IN AIR**

LEL: 3.3 %

UEL: 19 %

**EXTINGUISHING MEDIA:**

Use water, dry chemical or carbon dioxide.

**FIRE & EXPLOSION HAZARDS:**

Vapors can travel to a source of ignition and flash back. Extinguish all sources of ignition.

**FIRE FIGHTING INSTRUCTIONS:**

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool nearby containers.

**COMBUSTION PRODUCTS:**

None.

## 6. ACCIDENTAL RELEASE MEASURES

**LARGE SPILLS PROCEDURE:**

Absorb with sorbent material & place residue in DOT approved waste container. Keep out of sewers, storm drains surface & soils.

Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike & contain. Allow wax to cool and remove as solid.

**SMALL SPILLS PROCEDURE:**

Mop up & dispose of in DOT approved waste container.

## 7. HANDLING AND STORAGE

**HANDLING (PERSONNEL):**

Use only in a well-ventilated area.

**HANDLING (PHYSICAL ASPECTS):**

Keep away from heat, sparks and flames. Do not use pressure to empty containers.

**STORAGE PRECAUTIONS:**

Keep container closed when not in use. Store in a cool place. Avoid inhalation of vapors.



## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EYE / FACE PROTECTION REQUIREMENTS:

Use chemical goggles.

### SKIN PROTECTION REQUIREMENTS:

Wear impermeable gloves.

### RESPIRATORY PROTECTION REQUIREMENTS:

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH approved respiratory protection.

### MISCELLANEOUS:

Use local ventillation to maintain emission levels below the PEL.

### EXPOSURE GUIDELINES:

#### ETHYL SILICATE, CONDENSED

OSHA PEL: 100 ppm

OSHA TWA: 10 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....: Liquid  
COLOR .....: Clear  
ODOR .....: Mild  
VAPOR PRESSURE .....: 2 mm Hg  
VAPOR DENSITY .....: 2 (Air = 1)  
SOLUBILITY IN WATER ...: Decompose  
SPECIFIC GRAVITY .....: .935 (Water = 1)  
% VOLATILES .....: 1 %  
EVAPORATION RATE .....: 1

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Product will not undergo polymerization.

### INCOMPATIBILITY WITH OTHER MATERIALS:

Acids, alkalis, oxidizing or reducing agents.

### DECOMPOSITION:

May liberate carbon dioxide, carbon monoxide and silicon oxides.



(section 10 continued)

**CONDITIONS TO AVOID:**

Heat, sparks and open flames.

**11. TOXICOLOGICAL INFORMATION**

**ETHYL SILICATE, CONDENSED**

Test Code: Oral LD50

Species: Rat

Results: 6270 mg/kg

Test Code: LC50

Description: Inhalation

Species: Rat

Results: 1000 ppm administered for 4 hr.

Test Code: Eye

Species: Human

Results: 3000 ppm

**12. ECOLOGICAL INFORMATION**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:**

Dispose of waste material in accordance with all local, state/provincial, and national requirements.

**CONTAINER DISPOSAL:**

Use a DOT approved container.

**14. TRANSPORT INFORMATION**

PRODUCT LABEL .....: Liquid E  
D.O.T. SHIPPING NAME .....: N/A  
TECHNICAL SHIPPING NAME ...: N/A  
D.O.T. HAZARD CLASS .....: Flammable Liquid  
UN NUMBER .....: N/A



## 15. REGULATORY INFORMATION

### REGULATORY LISTS SEARCHED:

01 = SARA 313	02 = CA Proposition 65
03 = SARA 302/304	04 = CERCLA 302.4
05 = ACGIH TWA	06 = ACGIH STEL
07 = ACGIH CALC TLV	08 = OSHA PEL
09 = CANADIAN WHMIS	10 = OSHA Ceiling

### EEC Symbols and Indications of Danger:

Irritant (Xi)



### R-Phrases:

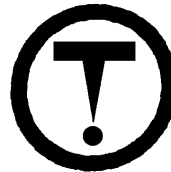
R36/38 - Irritating to eyes and skin.  
R37 - Irritating to respiratory system.

### S-Phrases:

S3/9 - Keep in a cool, well-ventilated place.  
S3/7 - Keep container tightly closed in a cool place.

### WHMIS Hazard Symbols:

Class B - Flammable and Combustible Material, Class D2 - Materials  
Causing Other Toxic Effects



### Canadian Disclosure List

ETHYL SILICATE, CONDENSED (78-10-4)

## 16. OTHER INFORMATION

REASON FOR ISSUE ....: Add current date to MSDS  
PREPARED BY .....: Phyll Tabone  
APPROVED BY .....: John Nicpon  
TITLE .....: Quality Manager  
APPROVAL DATE .....: November 1, 2013  
SUPERCEDES DATE ....: January 29, 2008  
RTN NUMBER .....: 00002024 (Official Copy)



(section 16 continued)

**ABBREVIATIONS USED IN THIS MSDS:**

TLV - THRESHOLD LIMIT VALUE	TWA - Time Weighted Average
STEL - SHORT TERM EXPOSURE LIMIT	TPQ - Threshold Planning Quantity
RQ - REPORTABLE QUANTITY	PEL - Permissible Exposure Limit
C - CEILING LIMIT	CAS - Chemical Abstract Service Number
NDA - NO DATA AVAILABLE	N/A - Not Applicable or Not Available

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**END OF MSDS**  
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