

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Liquid E
Product Number: 2005E, 2041* Set of C, D, E
Chemical Name: Ethyl Silicate condensed
Chemical Family: Esters
CAS Number: Blend

Company Identification

Nobilium Co., 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. 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

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

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, fire hazards.



3. HAZARDS IDENTIFICATION

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***** EMERGENCY OVERVIEW *****
*
* CAUTION
*
* Eliminate all sources of ignition - heat, sparks,
* flame, electricity, impact and friction. Avoid
* inhalation and eye contact.
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*****
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HMIS Rating - Health: 2
Flammability: 2
Reactivity: 0

NFPA Rating - Health: 2
Flammability: 2
Reactivity: 0

POTENTIAL HEALTH EFFECTS

EYE:
Causes eye irritation.

SKIN:
Causes skin irritation and dryness.

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

INGESTION:
Large quantities may cause nausea and vomiting.

REPRODUCTIVE HAZARDS:
None.

MEDICAL CONDITIONS AGRAVATED BY EXPOSURE:
Not determined.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:
Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.



(section 4 continued)

SKIN CONTACT FIRST AID:

Immediately flush skin with plenty of soap and water.

INHALATION FIRST AID:

If inhaled, remove to fresh air. If breathing is difficult, have qualified personnel administer oxygen. Get immediate medical attention.

INGESTION FIRST AID:

Get immediate attention. Immediately call poison control center or go to a hospital emergency room. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 37.0 C (98.6 F)
Autoignition Temperature: N/A

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:

Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Cool fire exposed containers and structures with water.

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.



(section 6 continued)

Wear respirator and protective clothing as appropriate. Shut off source of leak. Dike & contain. Allow residue 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 ventilation 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, alkali's, oxidizing or reducing agents.

DECOMPOSITION:

May liberate carbon dioxide, carbon monoxide and silicon oxides.

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. TRANSPORTATION 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: UN1292

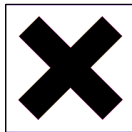
15. REGULATORY INFORMATION

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:

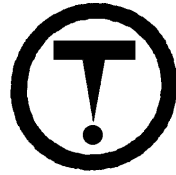
S3/9 - Keep in a cool, well-ventilated place.
S3/7 - Keep container tightly closed in a cool place.



(section 15 continued)

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

PREPARED BY: John Nicpon
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: June 27, 2011
SUPERCEDES DATE ...: June 27, 2011
MSDS NUMBER: 206
RTN NUMBER: 00000206 (Official Copy)

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

