

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 , 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:

WARNING: Flammable liquid and vapor. May affect the central nervous system causing dizziness, headache or nausea. May cause eye irritation. May cause skin and respiratory tract irritation.

GHS Classification:

Acute Toxicity, Inhalation - Category 4
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity-single exposure Category 3 (respiratory tract irritation)
Flammable liquids-Category 3

GHS Hazard Symbols:

Flammable, Irritant, Health Hazard



GHS Hazard Statements:

H225 - Highly flammable liquid and vapor.
H332 - Harmful if inhaled.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.



GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P271 - Use only outdoors or in a well-ventilated area.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ventilating/lighting equipment.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

EYE:

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

SKIN:

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

INHALATION:

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (See Section 8).

INGESTION:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

SIGNS AND SYMPTOMS OF EXPOSURE:

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), lung edema (fluid buildup in the lungs).

REPRODUCTIVE HAZARDS:

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

CARCINOGENICITY INFORMATION:

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

TARGET ORGAN:

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: blood abnormalities, liver abnormalities, kidney damage, lung damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Lung (for example, asthma-like conditions), Liver, Kidney, blood-forming system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

Chemical Name	Amount	CAS Number
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, chronic, fire hazards.



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.

SKIN CONTACT FIRST AID:

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

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:

Seek medical attention. Contact a physician, medical facility, or poison control center. 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: 30.0 C (86.0 F)
Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: 3.8 %
UEL: 19 %

FLAMMABLE PROPERTIES:

NFPA Flammable and Combustible Liquids Classification: Flammable Liquid IC.

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:

Carbon dioxide and carbon monoxides, silicates.

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. Local authorities should be advised if significant spillages cannot be contained.

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
BOILING POINT:	252 F
VAPOR PRESSURE:	2 mm Hg
VAPOR DENSITY:	7 (Air = 1)
SOLUBILITY IN WATER:	Decompose
SPECIFIC GRAVITY:	.935 (Water = 1)
% VOLATILES:	1 %
EVAPORATION RATE:	2.6



10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Product will not undergo polymerization.

INCOMPATIBILITY WITH OTHER MATERIALS:

Acids, alkali's, water, oxidizing or reducing agents.

DECOMPOSITION:

May liberate carbon dioxide, carbon monoxide and silicates.

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:	Tetraethyl Silicate
D.O.T. HAZARD CLASS:	3, PG III
UN NUMBER:	1292

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
10 = OSHA CEILING	

EEC Symbols and Indications of Danger:

Harmful (Xn), Irritant (Xi)



R-Phrases:

R36/38 - Irritating to eyes and skin.
R37 - Irritating to respiratory system.
R20 - Harmful by inhalation.

S-Phrases:

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

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:	March 9, 2018
SUPERCEDES DATE:	March 9, 2018
RTN NUMBER:	00000206 (Official Copy)

HMIS Rating:

Health - 2
Flammability - 3
Reactivity - 0

NFPA Rating:



Health - 2
Flammability - 2
Reactivity - 0

ABBREVIATIONS USED IN THIS MSDS:

TLV - THRESHOLD LIMIT VALUE
STEL - SHORT TERM EXPOSURE LIMIT
RQ - REPORTABLE QUANTITY
C - CEILING LIMIT
NDA - NO DATA AVAILABLE

TWA - Time Weighted Average
TPQ - Threshold Planning Quantity
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
N/A - Not Applicable or Not Available

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END OF SAFETY DATA SHEET

