SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® MEND 4000

CAS Number: A CAS number has not been assigned to this material.

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified Uses: Coating / surface treatment for various surfaces

1.3 Details of the Supplier of the Safety Data Sheet

Company: NEI Corporation

Address: 400 Apgar Drive, Unit E | Somerset, NJ 08873 – USA

Phone: +1 (732) 868-3141

Fax: +1 (732) 868-3143

Email: productinfo@neicorporation.com

1.4 Emergency Telephone Number (during transportation only)

Manufacturer: +1 (732) 868-3142 (9am to 6pm EST / UTC -0500)

U.S. Poison Control Center: +1 (800) 222-1222

ChemTel (North America): +1 (800) 255-3924 [Contract #MIS0008013] – during transportation only

ChemTel (International): +1 (813) 248-0585 (collect calls accepted) – during transportation only

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

May be harmful if swallowed (Category 5), H303

May be harmful if in contact with skin (Category 5), H313

Causes serious eye irritation (Category 2A), H319

May be harmful if inhaled (Category 5), H333

2.2 GHS Label elements, including precautionary statements

Pictogram(s):

Signal Word: Warning

Hazard Statement(s):

H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H319	Causes serious eye irritation
H333	May be harmful if inhaled

Precautionary Statement(s):

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 IF eye irritation persists: Get medical advice/attention

P312 Call a POISON CENTER or doctor/physician if you feel unwell

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

COMPONENT NAME	Formula	CAS #	CONCENTRATION
Water	H_2O	7732-18-5	65%
Polyurethane Resin	n/a	n/a	25%
Propylene Glycol Monomethyl Ether Acetate (PGMEA)	$C_6H_{12}O_3$	108-65-6	< 3%
Triethylamine (TEA)	$C_6H_{15}N$	121-44-8	< 1%
Proprietary Additive	n/a	n/a	> 5%

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

The concentrations of PGMEA and TEA are low and should not pose a significant risk. If concerned, consult a physician and show this safety data sheet to the doctor in attendance.

After Inhalation:

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

After Skin Contact:

Remove contaminated clothing and shoes. Wash with soap and copious amounts of water. Seek medical attention if irritation develops.

After Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and seek medical attention.

After Ingesting:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No Data Available

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No Data Available

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special Hazards Arising from the Substance or Mixture

Not determined

5.3 Advice for Firefighters

Wear full protective clothing and self-contained breathing apparatus approved for firefighting. Do not breathe smoke, gases, or vapors generated.

5.4 Further Information

No further relevant information available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Use personal protective equipment. Ensure adequate ventilation. Keep unprotected persons away. Eliminate sources of ignition or overheating. Ventilate area and wash spill site after material pickup is complete.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

6.4 Reference to Other Sections

For personal protection, see section 8. For disposal see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Appropriate personal protective equipment should be used at all times. Provide good ventilation or extraction. Avoid prolonged or repeated breathing of vapor. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after handling.

7.2 Conditions for Safe Storage (including any incompatibilities)

Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Keep away from sources of ignition. Stable under typical conditions of storage and use. Avoid strong oxidizing agents.

7.3 Specific End Uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Components with workplace control parameters:

Component Name	CAS #	VALUE	Control Parameter	Basis
Propylene Glycol Monomethyl Ether Acetate (PGMEA)	108-65-6	TWA	50.0 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
Triethylamine (TEA)	121-44-8	TWA	0.5 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	1.0 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	25.0 ppm	USA. Occupational Exposure Limits (OSHA)
		TWA	100.0 mg/m^3	USA. Occupational Exposure Limits (OSHA)

8.2 Exposure Controls

Appropriate Engineering Controls

Handle under properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Safety shower and eye bath recommended.
Handle in accordance with good industrial hygiene and safety practice. Keep away from food and beverages. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and end of workday.

Personal Protective Equipment

Respiratory Protection:

When applicable, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye / Face Protection:

Face shield and/or safety glasses should be worn. Use eye protection equipment that is tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand Protection:

Handle with chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use.

Skin and Body Protection:

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Form:	Liquid
Color:	White milky liquid
Odor:	Mild organic smell
pH:	Not determined
Melting point/range:	Not determined
Specific Gravity:	Not determined
Density (25 °C):	Not determined
Viscosity (20 °C):	Not determined
Boiling Point:	Not determined
Flashpoint:	Not determined
Ignition Temperature:	Not determined
Auto-ignition Temperature:	Not determined
Lower Explosion Limit:	Not determined
Upper Explosion Limit:	Not determined
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Water Solubility:	Soluble
Evaporation Rate:	Not determined

9.2 Other Information

No Data Available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not determined

10.2 Chemical Stability

Stable under recommended storage conditions (see Section 7.2)

10.3 Possibility of Hazardous Reactions

Not determined

10.4 Conditions to Avoid

Product contains low levels of flammable components which are not expected to present a flammability risk. However, care should be taken to avoid open flames.

10.5 Incompatible Materials

Strong oxidizing agents

10.6 Hazardous Decomposition Products

Not determined

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity

Oral LD50:	No Data Available
Inhalation LC50:	No Data Available
Dermal LD50:	No Data Available
Other Information:	No Data Available

Skin corrosion/irritation

No Data Available

Serious eye damage/eye irritation

No Data Available

Respiratory or skin sensitization

No Data Available

Germ cell mutagenicity

No Data Available

Carcinogenicity

No Data Available

Reproductive toxicity

No Data Available

Teratogenicity

No Data Available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No Data Available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No Data Available

Aspiration hazard

No Data Available

Signs and Symptoms of Exposure

No Data Available

Synergistic Effects

No Data Available

Additional Information

To the best of our knowledge, the chemical, physical, & toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The toxicological properties of this material have not been fully investigated.

12.2 Persistence and Degradability

No Data Available

12.3 Bioaccumulative Potential

No Data Available

12.4 Mobility in Soil

No Data Available

12.5 Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not conducted

12.6 Other Adverse Effects

No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product

Consult state, local or national regulations for proper disposal.

Contaminated Packaging

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 Department of Transportation (DOT - US)

Not dangerous goods

14.2 International Maritime Dangerous Goods (IMDG)

Not dangerous goods

14.3 International Air Transport Association (IATA)

Not dangerous goods

14.4 Other

HST Code / Schedule B #: 3208.90.0000

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

Component Name	CAS #
Triethylamine	121-44-8

SARA 311/312 Hazards

Component Name	CAS #	Hazards
PGMEA	108-65-6	Fire Hazard, Chronic Health Hazard
Triethylamine	121-44-8	Fire Hazard, Acute Health Hazard, Chronic Health Hazard

The following product components are cited on the lists below:

Component	CAS #	List Citations
PGMEA	108-65-6	NJ, PA Right to Know
Triethylamine	121-44-8	MA, NJ, PA Right to Know

CALIFORNIA PROPOSITION 65

This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

15.2 Chemical Safety Assessment

A chemical safety assessment was not carried out for this product

SECTION 16: OTHER INFORMATION

REACH Number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

HMIS Classification

Health Hazard:	1
Flammability Hazard:	1
Physical Hazard:	0

NFPA Rating

Health Hazard:	1
Flammability Hazard:	1
Reactivity Hazard:	0

Further Information

NEI has attempted to provide current and accurate information to the best of its knowledge. NEI makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person. Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Preparation Information

Version: #1.3 Prepared by: D. Eberly Revised by: K. Martin