SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® SuperCN Plus
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: Superhydrophobic coating for plastics, metals, and other 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

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

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
- Flammable liquids (Category 2), H225
- Acute toxicity, Oral (Category 4), H302
- Eye irritation (Category 2A), H319
- Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
- Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336
- Carcinogenicity (Category 2), H351
- Reproductive toxicity (Category 1B), H360

2.2 Label Elements

GHS Label Elements, including precautionary statements

Pictogram(s):

<table>
<thead>
<tr>
<th>Signal Word:</th>
<th>Danger</th>
</tr>
</thead>
</table>

Hazard Statement(s):

- H225 Highly flammable liquid and vapor
- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer
- H360 May damage fertility or the unborn child

Precautionary Statement(s):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
P240  Ground/bond container and receiving equipment.
P241  Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242  Use only non-sparking tools.
P243  Take precautionary measures against static discharge.
P246  Avoid breathing dust/fume/gas/mist/vapors/spray.
P244  Wash skin thoroughly after handling.
P247  Do not eat, drink or smoke when using this product.
P248  Use only outdoors or in a well-ventilated area.
P249  Wear protective gloves/protective clothing/eye protection/face protection.
P250  Use personal protective equipment as required.
P251  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P252  IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P253  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P254  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P255  IF exposed or concerned: Get medical advice/ attention.
P256  IF eye irritation persists: Get medical advice/ attention.
P257  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P258  Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P259  Store locked up.
P260  Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
May form explosive peroxides.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Synonyms</th>
<th>Formula</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>Propylene glycol methyl ether (PGME)</td>
<td>C₉H₁₀O₂</td>
<td>107-98-2</td>
<td>45 – 50 %</td>
</tr>
<tr>
<td>Tetrahydrofuran</td>
<td>THF</td>
<td>C₄H₈O</td>
<td>109-99-9</td>
<td>18 – 22 %</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>(Proprietary Resin)</td>
<td>n/a</td>
<td>n/a</td>
<td>15 – 25 %</td>
</tr>
<tr>
<td>Water</td>
<td>n/a</td>
<td>H₂O</td>
<td>7732-18-5</td>
<td>2 – 8 %</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In Case of Inhalation:
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact:
Wash with soap and copious amounts of water. Seek medical attention if irritation develops.

In Case of Eye Contact:
Immediately flush eyes copiously with water for at least 15 minutes. Seek medical attention.

In Case of Ingestion:
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most Important Symptoms and Effects, Both Acute and Delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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
Carbon oxides. Flash back possible over considerable distance. Container explosion may occur under fire conditions. Vapors may form explosive mixture with air. May form peroxides of unknown stability.

5.3 Advice for Firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further Information
Use water spray to cool unopened containers

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection, see section 8.

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 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 or mist. Avoid contact with skin and eyes. Use explosion-proof equipment. Keep away from sources of ignition – no smoking. Take measures to prevent the buildup of electrostatic charge.

7.2 Conditions for Safe Storage (including any incompatibilities)
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Air sensitive. Forms explosive peroxides on prolonged storage. May form peroxides on contact with air. Dry residue is explosive. Test for peroxide formation periodically and before distillation.

Storage class (TRGS 510): Flammable liquids

7.3 Specific End Uses
A part 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

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Value</th>
<th>OSHA (OEL)</th>
<th>ACGIH (TLV)</th>
<th>NIOSH (REL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol methyl ether (PGME)</td>
<td>107-98-2</td>
<td>TWA</td>
<td>N/A</td>
<td>50 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>360 mg/m³</td>
</tr>
</tbody>
</table>

Remarks: Upper Respiratory Tract irritation; Eye irritation; Not classifiable as a human carcinogen
8.2 Exposure Controls

**Appropriate Engineering Controls**
Handle in accordance with good industrial hygiene and safety practice. Keep away from food and beverages. Provide good ventilation or extraction. Safety shower and eye bath recommended. Wash hands before breaks & after workday.

**Personal Protective Equipment**

**Respiratory Protection:**
Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid, clear</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial Boiling point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
9.2 Other Information
No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No Data Available

10.2 Chemical Stability
May form peroxides on prolonged storage. Date container and periodically test for peroxides.

10.3 Possibility of Hazardous Reactions
Vapors may form explosive mixture with air.

10.4 Conditions to Avoid
Heat, flames and sparks.

10.5 Incompatible Materials
Strong oxidizing agents, acids

10.6 Hazardous Decomposition Products
No Data Available; in the event of fire, see Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects (of components)

<table>
<thead>
<tr>
<th></th>
<th>PGME (45-50%)</th>
<th>THF (18-22%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral LD50:</td>
<td>11,700 mg/kg (mouse)</td>
<td>1,650 mg/kg (rat)</td>
</tr>
<tr>
<td>Inhalation LC50:</td>
<td>10,000 ppm (rat – 5h)</td>
<td>14.7 mg/l (rat – 6h)</td>
</tr>
<tr>
<td>Dermal LD50:</td>
<td>13,000 mg/kg (rabbit)</td>
<td>2,000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Mild eye irritation - 24 h

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available
In vivo tests did not show mutagenic effects

Carcinogenicity
Suspected human carcinogens (Tetrahydrofuran only)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC:</td>
<td></td>
</tr>
<tr>
<td>No component of this product (present at levels greater than or equal to 0.1%) is identified as probable, possible or confirmed human carcinogen by IARC.</td>
<td></td>
</tr>
<tr>
<td>NTP:</td>
<td></td>
</tr>
<tr>
<td>No component of this product (present at levels greater than or equal to 0.1%) is identified as a known or anticipated carcinogen by NTP.</td>
<td></td>
</tr>
<tr>
<td>OSHA:</td>
<td></td>
</tr>
<tr>
<td>No component of this product (present at levels greater than or equal to 0.1%) is identified as a carcinogen or potential carcinogen by OSHA.</td>
<td></td>
</tr>
</tbody>
</table>

Reproductive toxicity
No data available

Teratogenicity
No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
May cause drowsiness or dizziness
May cause drowsiness or dizziness - Nervous system
May cause respiratory irritation
(cont.) **PGME (45-50%)**  
**THF (18-22%)**

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

- No data available  
- The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

- No data available  
- No aspiration toxicity classification

**Additional Information**

- **RTECS:** UB7700000  
  LU5950000

  **Stomach - Irregularities**  
  - Based on Human Evidence (both)

  The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

### SECTION 12: ECOLOGICAL INFORMATION (Tetrahydrofuran only)

#### 12.1 Toxicity

- **Toxicity to Fish:** LC50 - Pimephales promelas (fathead minnow) - 2,160 mg/l - 96 h
- **Toxicity to daphnia and other aquatic:** EC50 - Daphnia magna (Water flea) - 382 mg/l - 24 h
- **Toxicity to algae:** Growth inhibition IC50 - Algae - 3,700 mg/l - 192 h

#### 12.2 Persistence and Degradability

- **Biodegradability:** (OECD Test Guideline 301)
  - Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

#### 12.3 Bioaccumulative Potential

- No bioaccumulation is to be expected (log Pow <= 4)

#### 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**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated Packaging**

Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 Department of Transportation (DOT - US)

- **UN number:** 1866  
  - **Class:** 3  
  - **Packing Group:** II

  **Proper Shipping Name:** Resin Solution, flammable

#### 14.2 International Maritime Dangerous Goods (IMDG)

- **UN number:** 1866  
  - **Class:** 3  
  - **Packing Group:** II

  **Proper Shipping Name:** Resin Solution, flammable

#### 14.3 International Air Transport Association (IATA)

- **UN number:** 1866  
  - **Class:** 3  
  - **Packing Group:** II

  **Proper Shipping Name:** Resin Solution, flammable
14.4 Additional Transport Information
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
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran (THF)</td>
<td>109-99-9</td>
<td>Fire Hazard, Acute Health Hazard, Chronic Health Hazard</td>
</tr>
<tr>
<td>1-Methoxy-2-Propanol (PGME)</td>
<td>107-98-2</td>
<td>Fire Hazard, Acute Health Hazard, Chronic Health Hazard</td>
</tr>
</tbody>
</table>

The following product components are cited on the lists below:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>List Citations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran (THF)</td>
<td>109-99-9</td>
<td>MA, NJ, PA Right to Know</td>
</tr>
<tr>
<td>1-Methoxy-2-Propanol (PGME)</td>
<td>107-98-2</td>
<td>MA, NJ, PA Right to Know</td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any 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

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>2</th>
<th>Health Hazard</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>3</td>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Physical</td>
<td>0</td>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

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.