SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® SuperAi-UVP  
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: Anti-ice coating 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 Numbers

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
- Sensitization, skin (Category 1), H317
- Eye irritation (Category 2A), H319
- Acute toxicity, Inhalation (Category 4), H332
- Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
- Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

2.2 GHS Label elements, including precautionary statements

Pictogram(s):  
Signal Word: Danger

Hazard Statement(s):  
- H225 Highly flammable liquid and vapor  
- H303 May be harmful if swallowed  
- H317 May cause an allergic skin reaction  
- H319 Causes serious eye irritation  
- H332 Harmful if inhaled  
- H335 May cause respiratory irritation  
- H336 May cause drowsiness or dizziness

Precautionary Statement(s):  
- P210 Keep away from heat/sparks/open flames/hot surfaces - no smoking  
- P233 Keep container tightly closed  
- P240 Ground/bond container and receiving equipment
**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret (1)</td>
<td>Proprietary</td>
<td>N/A</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Trade Secret (2)</td>
<td>Proprietary</td>
<td>Flam. Liq. 3, H226; Acute Tox. 4, H319; Eye Irrit. 2A, H332; STOT SE 3, H335</td>
<td>9 – 11%</td>
</tr>
<tr>
<td>Trade Secret (3a)</td>
<td>Proprietary</td>
<td>Skin Sens. 1, H317</td>
<td>5 – 7%</td>
</tr>
<tr>
<td>Trade Secret (3b)</td>
<td>Proprietary</td>
<td>Skin Sens. 1, H317</td>
<td>15 – 17%</td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>79-20-9</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336</td>
<td>60 – 67%</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.

**After Inhalation:**
If breathed in, remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**After Skin Contact:**
Immediately remove all contaminated clothing. Rinse skin with copious amounts of water / shower. 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. If eye irritation persists, get medical advice / attention.
**After Ingesting:**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a POISON CENTER or doctor/physician IF you feel unwell.

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, foam, dry chemical, or CO₂

5.2 Special Hazards Arising from the Substance or Mixture
Carbon oxides, silicon oxides, phenolics

5.3 Advice for Firefighters
Wear full protective clothing and self-contained breathing apparatus approved for firefighting.

5.4 Further Information
Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. 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.

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 (see section 13).

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. Use explosion-proof equipment. Keep away from heat, sparks, flames and other sources of ignition – no smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

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. Residual vapors might explode on ignition. Do not apply heat, cut, drill, and grind or weld on or near this container. 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:
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 (of components with known values)

<table>
<thead>
<tr>
<th>Components</th>
<th>Trade Secret (2)</th>
<th>Methyl Acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Liquid</td>
<td>Clear Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
<td>Light pink to light yellow</td>
</tr>
<tr>
<td>Odor:</td>
<td>No Data Available</td>
<td>Mildly fruity</td>
</tr>
<tr>
<td>pH:</td>
<td>No Data Available</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting Point / Range:</td>
<td>-82.49 ºC (-116.48 ºF) at ca. 1,013 hPa (760 mmHg)</td>
<td>-98 ºC (-144 ºF) - lit.</td>
</tr>
<tr>
<td>Initial Boiling Point / Range:</td>
<td>168 ºC (334 ºF) - lit.</td>
<td>57 - 58 ºC (135 - 136 ºF) - lit.</td>
</tr>
<tr>
<td>Flashpoint:</td>
<td>45 ºC (113 ºF) - closed cup</td>
<td>-12.99 ºC (8.62 ºF) - closed cup</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No Data Available</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No Data Available</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Upper Explosion Limit:</td>
<td>23% (V)</td>
<td>16% (V)</td>
</tr>
<tr>
<td>Lower Explosion Limit:</td>
<td>1.3% (V)</td>
<td>3% (V)</td>
</tr>
<tr>
<td>Vapor Pressure (20 ºC):</td>
<td>10.0 hPa (7.5 mmHg)</td>
<td>217 hPa (163 mmHg)</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>7.19</td>
<td>2.8</td>
</tr>
</tbody>
</table>
9.2 Other Information
None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No Data Available

10.2 Chemical Stability
Stable under recommended storage conditions (see Section 7.2)

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

10.4 Conditions to Avoid
Keep away from heat, sparks and flames

10.5 Incompatible Materials
Strong oxidizing agents, strong acids, strong bases

10.6 Hazardous Decomposition Products
No Data Available (in event of fire, see Section 5)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects (of components with known values)

<table>
<thead>
<tr>
<th>Acute Toxicity</th>
<th>Trade Secret (2)</th>
<th>Trade Secret (3a/b)</th>
<th>Methyl Acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50:</td>
<td>&gt; 2,500 mg/kg (Rat) (OECD Test Guideline 423)</td>
<td>No Data Available</td>
<td>6,482 mg/kg (Rat, male) (OECD Test Guideline 401)</td>
</tr>
<tr>
<td>Inhalation LC50:</td>
<td>No Data Available</td>
<td>No Data Available</td>
<td>49.2 - 98.4 mg/l (Rabbit) (male and female - 4 h)</td>
</tr>
<tr>
<td>Dermal LD50:</td>
<td>5,878 mg/kg (Rabbit)</td>
<td>No Data Available</td>
<td>5,000 mg/kg (Rabbit)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Skin – Rabbit
Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation
No Data Available

Respiratory or skin sensitization
Buehler Test - Guinea pig Did not cause sensitization on laboratory animals (OECD Test Guideline 406)

NANOMYTE® SuperAi-UVP
### Germ cell mutagenicity

<table>
<thead>
<tr>
<th>Trade Secret (2)</th>
<th>Trade Secret (3a/b)</th>
<th>Methyl Acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Vitro Assay</td>
<td>No Data Available</td>
<td>Ames test - S. typhimurium</td>
</tr>
<tr>
<td>Chinese hamster ovary cells</td>
<td>Result: negative</td>
<td>Result: negative</td>
</tr>
<tr>
<td>No Data Available</td>
<td>No Data Available</td>
<td>OECD Test Guideline 474</td>
</tr>
</tbody>
</table>

### Carcinogenicity

- **IARC:** No component of this product (present at levels greater than or equal to 0.1%) is identified as a probable, possible or confirmed human carcinogen by IARC.
- **ACGIH:** No component of this product (present at levels greater than or equal to 0.1%) is identified as a carcinogen or potential carcinogen by ACGIH.
- **NTP:** 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.
- **OSHA:** 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.

### Reproductive toxicity

No Data Available

### Teratogenicity

No Data Available

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

- **Trade Secret (2):** May cause respiratory irritation
- **Methyl Acetate:** May cause drowsiness or dizziness, Central nervous system

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

No Data Available

### Aspiration hazard

No Data Available

### Additional Information

#### Trade Secret (2)

- Repeated dose toxicity - Rat - male and female - Gavage - No observed adverse effect level - 10 - 50 mg/kg
- Liver - Irregularities - Based on Human Evidence

#### Methyl Acetate

- Repeated dose toxicity: Rat - male and female - Inhalation - NOAEL : 1,057 mg/m3 - OECD Test Guideline 412
- RTECS: AI9100000

Methyl Acetate is metabolized into formic acid. Humans and other primates metabolize formic acid more slowly than do rodents. Formic acid can build up in the body producing toxic effects possibly leading to death; therefore, data from studies in rodents may have limited relevance for human risk assessment. To the best of our knowledge, the chemical, physical, & toxicological properties have not been thoroughly investigated.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity (of components with known values)

- **Trade Secret (2)**
  - Toxicity to fish (LC50): Semi-static Test – Danio rerio (zebra fish) – 245 mg/l - 96 h
  - Toxicity to daphnia and other aquatic invertebrates (EC50): Flow-through Test – Daphnia magna (Water flea) – 75 mg/l (OECD Test Guideline 202)
  - Toxicity to algae (EC50): Static Test – Pseudokirchneriella subcapitata – 100 mg/l - 72 h (OECD Test Guideline 201)

- **Methyl Acetate**
  - Toxicity to fish (LC50): Static Test – Danio rerio (zebra fish) - 250 - 350 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates (EC50): Static Test – Daphnia magna (Water flea) - 1,026.7 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae (EC50): Static Test – Desmodesmus subspicatus (Scenedesmus subspicatus) - > 120 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria (EC50): Pseudomonas putida - 6,000 mg/l - 16 h

12.2 Persistence and Degradability
Trade Secret (2): Aerobic - Exposure time 28 d | Result: 98% - Readily biodegradable
Methyl Acetate: Aerobic - Exposure time 28 d | Result: 70% - Readily biodegradable (OECD Test Guideline 301D)

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
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 container and unused contents in accordance with federal, state and local requirements.

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
HS Code (first 6 digits) / HTS-US #: 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>Trade Secret (2)</td>
<td>Proprietary</td>
<td>Fire Hazard, Acute Health Hazard, Chronic Health Hazard</td>
</tr>
<tr>
<td>Trade Secret (3a/b)</td>
<td>Proprietary</td>
<td>Acute Health Hazard</td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>79-20-9</td>
<td>Fire Hazard, Acute 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>Trade Secret (2)</td>
<td>Proprietary</td>
<td>MA, NJ, PA Right to Know</td>
</tr>
<tr>
<td>Trade Secret (3a/b)</td>
<td>Proprietary</td>
<td>NJ, PA Right to Know</td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>79-20-9</td>
<td>MA, NJ, PA Right to Know</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard:</td>
<td>2</td>
</tr>
<tr>
<td>Flammability Hazard:</td>
<td>3</td>
</tr>
<tr>
<td>Physical Hazard:</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.