SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers
   Product Name(s): NANOMYTE® SR-Primer (includes SRP-50 and SRP-51)
   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: Laboratory chemicals, adhesion promotor, coating

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 [Acetone]
   Flammable liquids (Category 3), H226 [PGME]
   Eye irritation (Category 2A), H319 [Acetone]
   Specific target organ toxicity - single exposure (Category 3); Central nervous system, H336 [PGME, Acetone]

2.2 Label Elements
   GHS Label Elements, including precautionary statements
   Pictogram(s):  
   Signal Word: Danger
   Hazard Statement(s):
   H225 Highly flammable liquid and vapor
   H226 Flammable liquid and vapor
   H319 Causes serious eye irritation
   H336 May cause drowsiness or dizziness
   Precautionary Statement(s):
   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
   P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with soap and water/ shower.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Formula</th>
<th>CAS #</th>
<th>EC #</th>
<th>Index #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol [Propylene glycol methyl ether &quot;PGME&quot;]</td>
<td>C₄H₁₀O₂</td>
<td>107-98-2</td>
<td>203-539-1</td>
<td>603-064-00-3</td>
<td>78 – 82%</td>
</tr>
<tr>
<td><strong>Hazard Classification:</strong> Flam. Liq. Cat. 3 (H226); STOT SE Cat. 3 (H336); contains &lt;0.3% 2-methoxypropanol (1589-47-5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>C₃H₆O</td>
<td>67-64-1</td>
<td>200-662-2</td>
<td>606-001-00-8</td>
<td>12 – 18%</td>
</tr>
<tr>
<td><strong>Hazard Classification:</strong> Flam. Liq. Cat. 2 (H225); Eye Irrit. Cat. 2A (H319); STOT SE Cat. 3 (H336)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proprietary Resin</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>&lt; 3%</td>
</tr>
<tr>
<td><strong>Hazard Classification:</strong> Not hazardous</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hazard Classification Statements in this section have been abbreviated; refer to Sections 2 & 16 for full text.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

**General Advice:**
Move out of dangerous area. Consult a physician. 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. Seek medical attention.

**After Skin Contact:**
Wash with soap and copious amounts of water. Consult a physician.

**After Eye Contact:**
Flush eyes copiously with water for at least 15 minutes. Seek medical attention.

**After Swallowing:**
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
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 CO₂

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 (see section 13).

6.4 Reference to Other Sections

For disposal see Section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Use personal protective equipment at all times. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the buildup of electrostatic charge. For additional 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. Contains PGME, which is air sensitive and forms explosive peroxides on prolonged storage. May form peroxides on contact with air. Purge with inert gas as precaution. Storage class (TRGS 510): Flammable liquids

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:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Concentration</th>
<th>Value</th>
<th>ACGIH (TLV)</th>
<th>OSHA (PEL)</th>
<th>NIOSH (REL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol (&quot;PGME&quot;)</td>
<td>107-98-2</td>
<td>78 – 82%</td>
<td>TWA</td>
<td>50 ppm</td>
<td>n/a</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<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
<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Concentration</th>
<th>Value</th>
<th>ACGIH (TLV)</th>
<th>OSHA (PEL)</th>
<th>NIOSH (REL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>12 – 18% TWA</td>
<td>250 ppm</td>
<td>1,000 ppm / 2,400 mg/m³</td>
<td>250 ppm</td>
<td>590 mg/m³</td>
</tr>
</tbody>
</table>

Remarks: Central Nervous System impairment; Hematologic effects; Upper Respiratory Tract irritation; Eye irritation

Notes: PEL – Permissible Exposure Limit; TLV – Threshold Limit Values; REL – Recommended Exposure Limits

8.2 Exposure Controls

Appropriate Engineering Controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

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:
Impervious clothing; flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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).

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>Alcohol-like</td>
</tr>
<tr>
<td>pH</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting / Freezing Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Initial Boiling Point / Range</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flashpoint (closed cup)</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 (20.0 °C)</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely Miscible</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>
</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. 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
Heat, flames, sparks

10.5 Incompatible Materials
Bases, strong oxidizing agents, reducing agents, Acetone reacts violently with phosphorous oxychloride

10.6 Hazardous Decomposition Products
Other decomposition products: No Data Available (in the event of fire, see Section 5)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity
- Oral LD₅₀: PGME – 11,700 mg/kg (mouse) Acetone – 5,800 mg/kg (rat)
- Inhalation LC₅₀: PGME – 10,000 ppm – 5h (rat) Acetone – 50,100 mg/m³ – 8h (rat)
- Dermal LD₅₀: PGME – 13,000 mg/kg (rabbit) Acetone – 7,426 mg/kg (guinea pig)

Skin corrosion/irritation
May cause skin irritation [Skin (rabbit); Acetone: Mild skin irritation – 24 h]

Serious eye damage/eye irritation
Causes eye irritation [Eyes (rabbit); Acetone: Eye irritation – 24 h; PGME: Mild eye irritation – 24 h]

Respiratory or skin sensitization
No Data Available

Germ cell mutagenicity
No Data Available

Carcinogenicity
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
- 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)
May cause drowsiness or dizziness [Acetone & PGME]

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No Data Available

Aspiration hazard
No Data Available

Additional Information
PGME (RTECS: UB7700000)
Stomach - Irregularities - Based on Human Evidence

Acetone (RTECS: AL3150000)
Kidney - Irregularities - Based on Human Evidence; Skin - Dermatitis - Based on Human Evidence

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
The toxicological properties of this material (mixture) have not been fully investigated.

Toxicity to fish: Acetone – LC50 – Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h
Toxicity to daphnia & other aquatic invertebrates: Acetone – LC50 – Daphnia magna (Water flea) - 8,800 mg/l - 48 h
Toxicity to algae: No data available

12.2 Persistence and Degradability
Acetone – Result: 91% - Readily biodegradable (OECD Test Guideline 301B); PGME: 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
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product: This product when disposed of in its unused and uncontaminated state should be treated as a hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations.

Packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 Department of Transportation (DOT - US)

UN number: 1866  Class: 3  Packing Group: III

Proper Shipping Name: Resin Solution, flammable
14.2 International Maritime Dangerous Goods (IMDG)

UN number: 1866  
Class: 3  
Packing Group: III

Proper Shipping Name: Resin Solution, flammable

14.3 International Air Transport Association (IATA)

UN number: 1866  
Class: 3  
Packing Group: III

Proper Shipping Name: Resin Solution, flammable

14.4 Additional Transport Information

Ground Limited Quantities: 5L (net) / 30kg (gross)
Air Excepted Quantities (EQ): 30mL (net) / 1L (gross) [E1]
Air Limited Quantities (LQ): 10L (gross) [Y344]

HS Classification #: 3208.90  
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 (DeMinimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard, Chronic Health Hazard

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>1-methoxy-2-propanol [PGME]</td>
<td>107-98-2</td>
<td>MA, NJ, PA Right to Know</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</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, 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

Full Text of H-Statements referred to under Section 3

<table>
<thead>
<tr>
<th>Acute Tox:</th>
<th>Acute toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq.:</td>
<td>Flammable Liquid</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cat.:</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT SE:</td>
<td>Specific target organ toxicity, single exposure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eye Irrit.:</th>
<th>Eye irritation</th>
</tr>
</thead>
</table>

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

Revisions
Hazards updated for PGME containing less than 0.3% of 2-methoxypropanol (CAS #1589-47-5).
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.

– END OF SDS –