SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® SP-10C
Product Description: LATP-coated Lithium Manganese Nickel Oxide ("LMNO") powder

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

Identified Uses: Laboratory chemicals; synthesis of substances; R&D

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

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin sensitization (Category 1), H317
Carcinogenicity (Category 2), H351

2.2 GHS Label elements, including precautionary statements

Pictogram(s): ![Warning]
Signal Word: Warning

Hazard Statement(s):
H317 May cause an allergic skin reaction
H351 Suspected of causing cancer

Precautionary Statement(s):
P202 Do not handle until all safety precautions have been read and understood
P232 Protect from moisture
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves, protective clothing, & eye protection
P302 + P352 IF ON SKIN: Wash with plenty of soap and water
P308 + P313 IF exposed or concerned: Get medical advice/ attention
P321 Specific treatment (see supplemental first aid instructions on this label)
P333 + P313 IF skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse
P405 Store locked up
P501 Dispose of contents/ container to an approved waste disposal plant.

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</th>
<th>Synonyms</th>
<th>Formula</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Manganese Nickel Oxide</td>
<td>Spinel, LMNO</td>
<td>LiMn$_1.5$Ni$_0.5$O$_4$</td>
<td>12031-75-3</td>
<td>95 – 99%</td>
</tr>
<tr>
<td>Lithium Aluminum Titanium Phosphate</td>
<td>LATP</td>
<td>Li$<em>1.4$Al$</em>{0.4}$Ti$_{1.6}$(PO$_4$)$_3$</td>
<td>120479-61-0</td>
<td>1 – 5%</td>
</tr>
</tbody>
</table>

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:**
If breathed in, move person into fresh air. If not breathing give artificial respiration. Seek medical attention.

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

**After Eye Contact:**
Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention if irritation develops.

**After Swallowing:**
Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 carbon dioxide

5.2 Hazardous Combustion Products
Nickel oxides, Lithium oxides, Manganese oxides, Oxides of phosphorus, Titanium oxides, Aluminum oxides

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

5.4 Other Information
No Data Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe 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
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in closed containers for disposal.

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
Handle in a dry environment only. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Appropriate personal protective equipment should be used at all times (for additional precautions see Section 2.2).

7.2 Conditions for Safe Storage (including any incompatibilities)
Store sealed, in a dry and well-ventilated place. Avoid exposure to moisture / humidity. Avoid contamination with incompatible materials (see Section 10.5).

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:
Contains no substances with occupational exposure limit values.

8.2 Exposure Controls
Appropriate Engineering Controls
Handle under properly operating chemical fume hood having an average face velocity of at least 100 feet per minute. 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 after use.

Personal Protective Equipment
Eye / Face Protection:
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection:
Handle with 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.

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.

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>Physical State:</td>
<td>Solid (powder)</td>
</tr>
<tr>
<td>Color:</td>
<td>Brown, black</td>
</tr>
<tr>
<td>Odor:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>pH:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting Point / Range:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Boiling Point / Range:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>
Evaporation Rate: No Data Available
Flammability: No Data Available
Upper Explosion Limit: No Data Available
Lower Explosion Limit: No Data Available
Vapor Pressure: No Data Available
Vapor Density: No Data Available
Relative Density: No Data Available
Water Solubility: No Data Available
Partition Coefficient: No Data Available
Auto-ignition Temperature: No Data Available
Decomposition Temperature: No Data Available
Viscosity: No Data Available

9.2 Other Safety Information
No Data Available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No Data Available

10.2 Chemical Stability
Stable under recommended storage conditions

10.3 Possibility of Hazardous Reactions
No Data Available

10.4 Conditions to Avoid
No Data Available

10.5 Incompatible Materials
Oxidizing agents, strong 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

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
Limited evidence of carcinogenicity in human studies
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)
No Data Available

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

Aspiration hazard
No Data Available

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity
No Data Available

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 PBT and vPvB Assessment
No Data Available

12.6 Other Adverse Effects
No Data Available

SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste Treatment Methods – Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Waste Treatment Methods – Contaminated Packaging
Dispose of as unused product, clean residue from packaging (do not allow in drains), & dispose of properly.
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
HS Code: 2853.00 Schedule B: 2853.00.0065

SECTION 15: REGULATORY INFORMATION

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

OSHA HAZARDS
Skin sensitizer, carcinogen

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
Acute Health Hazard, Chronic Health Hazard

Right to Know Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Manganese Nickel Oxide</td>
<td>12031-75-3</td>
<td>NJ, PA</td>
</tr>
<tr>
<td>Lithium Aluminum Titanium Phosphate</td>
<td>120479-61-0</td>
<td>NJ, PA</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.

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.

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 –