

**SECTION 1: PRODUCT & COMPANY IDENTIFICATION**

**1.1 Product Identifiers**

Product Name: NANOMYTE® PC-20  
Product Description: Additive for Thermoplastic Coatings  
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 chemical

**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

**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 4), H227  
Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Reproductive toxicity (Category 1B), H360  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**2.2 GHS Label elements, including precautionary statements**

Pictogram(s):



Signal Word: Danger

**Hazard Statement(s):**

H227 Combustible liquid  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H360 May damage fertility or the unborn child

**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  
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.  
P280 Wear protective gloves, protective clothing, eye protection, face protection  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor 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.

- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- 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

Contains N-methyl-2-pyrrolidone ("NMP"), a substance that is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	CAS #	Classification	Wt. Percent
Trade Secret	(proprietary)	Not hazardous / no known hazards	10 – 15%
N-Methyl-2-pyrrolidone ("NMP")	872-50-4	Flam. Liq. (Cat. 4); Skin Irrit. (Cat. 2); Eye Irrit. (Cat. 2A); Repr. (Cat. 1B); STOT SE (Cat. 3); SVHC	85 – 90%

For the full text of the Classification statements mentioned in this Section, see Section 2.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### General Advice:

Move out of exposed area. Seek medical attention if irritation occurs. Show this SDS to the doctor in attendance.

#### After Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration and seek medical attention.

#### After Skin Contact:

Wash off with soap and plenty of water. Consult a physician.

#### After Eye Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### After Swallowing:

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 Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides (NOx)

### 5.3 Advice for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary

### 5.4 Other 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 at all times. Wear respiratory protection. 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. Keep in suitable, closed containers for disposal.

### 6.4 Reference to Other Sections

For safe handling, see Section 7; for personal protection, see Section 8; for disposal, see Section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

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 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. Do not store together with volatile chemicals as they may be adsorbed onto product. Keep in properly labeled containers. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas. Moisture sensitive.

### 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:

Component Name	CAS #	Value	Control Parameters	Basis
N-methyl-2-pyrrolidone (NMP)	872-50-4	TWA	10 ppm	USA. Workplace Environmental Exposure Levels (WEEL)
		PEL	1 ppm 4 mg/m <sup>3</sup>	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
<b>Remarks:</b>	Skin			
Trade Secret (as solid)	n/a	PEL	6 mg/m <sup>3</sup>	USA. OSHA PEL
		TWA	4 – 6 mg/m <sup>3</sup>	Inhalable fraction (varies by country)
		TWA	1.5 – 2.4 mg/m <sup>3</sup>	Respirable fraction (varies by country)

**Notes:** TWA – Time Weighted Average; PEL – Permissible Exposure Limit

### 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:

Safety glasses with side-shields conforming to EN166 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:**

Impervious 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 respirator with multipurpose combination (US) or type ABEK (EN 14387) 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**

Form:	Liquid
Color:	Off white
Odor:	No Data Available
pH:	No Data Available
Melting point/range:	No Data Available
Specific Gravity:	No Data Available
Density (20 °C):	No Data Available
Viscosity (20 °C):	No Data Available
Boiling Point:	No Data Available
Flashpoint:	No Data Available
Ignition Temperature:	No Data Available
Auto-ignition Temperature:	No Data Available
Lower Explosion Limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Water Solubility:	No Data Available
Evaporation Rate:	No Data Available

**9.2 Other Information**

No Data Available

---

**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**

No Data Available

**10.4 Conditions to Avoid**

Heat, flames, and sparks

**10.5 Incompatible Materials**

Strong acids, strong oxidizing agents, strong reducing agents, hydrogen fluoride, oxidizing agents, ammonia, oxygen difluoride, chlorine trifluoride

## 10.6 Hazardous Decomposition Products

Under fire conditions: Carbon oxides, nitrogen oxides (NO<sub>x</sub>); 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

Dermal LD50: No Data Available

Inhalation LC50: No Data Available

Other Information: No Data Available

#### Skin corrosion/irritation

No Data Available – may cause skin irritation (contains NMP)

#### Serious eye damage/eye irritation

No Data Available – may cause eye irritation (contains NMP)

#### Respiratory or skin sensitization

No Data Available

#### Germ cell mutagenicity

No Data Available

#### Carcinogenicity

**IARC:** No classification data on carcinogenic properties of the material is available.

**ACGIH:** No classification data on carcinogenic properties of the material is available.

**NTP:** No classification data on carcinogenic properties of the material is available.

**OSHA:** No classification data on carcinogenic properties of the material is available.

#### Reproductive Toxicity

No Data Available – may cause possible damage to fetus (contains NMP)

#### Teratogenicity

No Data Available

#### Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System)

May cause respiratory irritation

#### Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System)

Effects not known

#### Aspiration Hazard

No Data Available

#### Additional Information

**NMP:** Prolonged or repeated exposure can cause vomiting, diarrhea, abdominal pain. Rats exposed to N-methyl-2-pyrrolidinone at a concentration of 1 mg/l as an aerosol for 10 days, showed depletion of hematopoietic cells in the bone marrow and atrophy of the lymphoid tissues of the thymus, spleen, and lymph nodes. (RTECS: UY5790000)

Bone marrow - Irregularities - Based on Human Evidence

To the best of our knowledge, the chemical, physical, and toxicological properties of this product 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 Results of PBT and vPvB Assessment**

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

**12.6 Other Adverse Effects**

No Data Available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods – Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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 properly as you would with unused product.

**SECTION 14: TRANSPORT INFORMATION**

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

Not regulated for transport

NA-Number: 1993      Class: NONE      Packing group: III

Proper shipping name: Combustible liquid, n.o.s. (N-methyl-2-pyrrolidone)

Poison Inhalation Hazard: No

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

Not regulated for transport

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

Not regulated for transport

**14.4 Additional Transport Information**

**HS Classification #:** 2933.79

**Schedule B #:** 2933.79.2000

**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**

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Component Name</u>	<u>CAS #</u>
N-methyl-2-pyrrolidone (NMP)	872-50-4

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**The following product components are cited on the lists below:**

<u>Component</u>	<u>CAS #</u>	<u>List Citations</u>
N-methyl-2-pyrrolidone (NMP)	872-50-4	PA, MA, NJ Right to Know

**California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<u>Component Name</u>	<u>CAS #</u>
N-methyl-2-pyrrolidone (NMP)	872-50-4

**Candidate List of Substances of Very High Concern (SVHC)**

This product contains N-methyl-2-pyrrolidone ("NMP"), a substance that is included in the Candidate List of SVHC, according to Regulation (EC) No. 1907/2006 (REACH)

**TSCA Chemical Substance Inventory**

N-methyl-2-pyrrolidone (NMP) is listed as active on the US TSCA list

**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: 2  
Flammability Hazard: 2  
Physical Hazard: 0

**NFPA Rating**

Health Hazard: 2  
Flammability Hazard: 2  
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.

– END OF SDS –