

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® SuperCN (Part A)
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: Highly hydrophobic 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 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 – [Methanol, Ethanol]
Flammable Liquids (Category 3), H226 – [2-Butanol, PGME]
Eye irritation (Category 2A), H319 – [2-Butanol, Ethanol]
Acute toxicity, Oral (Category 3), H301 – [Methanol]
Acute toxicity, Dermal (Category 3), H311 – [Methanol]
Acute toxicity, Inhalation (Category 3), H331 – [Methanol]
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 – [2-Butanol]
Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 – [2-Butanol, PGME]
Specific target organ toxicity - single exposure (Category 1), H370 – [Methanol]

2.2 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
H301 + H311 + H331 Toxic if swallowed, in contact with skin, or if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H370 Causes damage to organs

Precautionary Statement(s):

P210 Keep away from heat / sparks / open flames / hot surfaces — no smoking

- P233 Keep container tightly closed
- P260 Do not breathe dust / fume / gas / mist / vapors / spray
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing, eye protection, face protection
- P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention
- P363 Wash contaminated clothing before reuse
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P412 Store at temperatures not exceeding 5 °C / 41 °F. Keep cool.
- P501 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 [2-Butanol]

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Component Name	Formula	CAS #	EC #	Index #	Wt. %
Water	H ₂ O	7732-18-5	231-791-2	n/a	40 – 47%
Hazard Classification: Not a hazardous substance					
1-Methoxy-2-propanol ["PGME"]	C ₄ H ₁₀ O ₂	107-98-2	203-539-1	603-064-00-3	30 – 35%
Hazard Classification: Flam. Liq. Cat. 3 (H226); STOT SE Cat. 3 (H336); contains <0.3% 2-methoxypropanol (1589-47-5)					
Proprietary Resin	n/a	n/a	n/a	n/a	10 – 14%
Hazard Classification: Not hazardous					
Ethanol	C ₂ H ₆ O	64-17-5	200-578-6	603-002-00-5	3 – 9%
Hazard Classification: Flam. Liq. Cat. 2 (H225); Eye Irrit. Cat. 2A (H319)					
2-Butanol	C ₄ H ₁₀ O	78-92-2	201-158-5	603-127-00-5	2 – 4%
Hazard Classification: Flam. Liq. Cat. 3 (H226); Eye Irrit. Cat. 2A (H319); STOT SE Cat. 3 (H335, H336)					
Methanol	CH ₃ OH	67-56-1	200-659-6	603-001-00-X	1 – 3%
Hazard Classification: Flam. Liq. Cat. 2 (H225); Acute Tox. Cat. 3 (H301 + H311 + H331); STOT SE Cat. 1 (H370)					

For the full text of the Classification statements mentioned in this Section, see Section 2 & 16.

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:

Remove all contaminated clothing. Wash skin with soap and 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 / 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

Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

5.2 Special Hazards Arising from the Substance or Mixture

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide. 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 positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

5.4 Other Information

Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

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. Ground and bond all containers and handling equipment.

6.2 Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

6.3 Methods and Materials for Containment and Cleaning Up

Small spills: Absorb with materials such as sand or vermiculite. Collect in suitable and properly labeled containers. Large spills: Contain spilled material if possible. Ground and bond all containers and handling equipment. Pump with explosion-proof equipment. If available, use foam to smother or suppress.

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

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)

Flammable mixtures may exist within the vapor space of containers at room temperature. Keep container tightly closed in a dry and well-ventilated place. Minimize sources of ignition, such as static build-up, heat, spark or flame. Opened containers must be carefully resealed and kept upright to prevent leakage. Contains a component that forms explosive peroxides upon 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:

Component Name	CAS #	Concentration	Value	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Propylene glycol methyl ether (PGME)	107-98-2	30 – 35%	TWA	50 ppm	n/a	100 ppm 360 mg/m ³
Remarks:	Upper Respiratory Tract irritation; Eye irritation; Not classifiable as a human carcinogen					
Ethanol	64-17-5	3 – 9%	TWA	1,000 ppm	1,000 ppm 1,900 mg/m ³	1,000 ppm 1,900 mg/m ³
Remarks:	Upper Respiratory Tract irritation; Confirmed animal carcinogen with unknown relevance to humans					
2-Butanol	78-92-2	2 – 4%	TWA	100 ppm 303 mg/m ³	150 ppm 450 mg/m ³	100 ppm 305 mg/m ³
Remarks:	Central Nervous System impairment; Upper Respiratory Tract irritation					
Methanol	67-56-1	1 – 3%	TWA	200 ppm 262 mg/m ³	200 ppm 260 mg/m ³	200 ppm 260 mg/m ³
Remarks:	Headache					

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. 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

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).

Skin 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.

Body Protection:

Impervious, 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 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:	Colorless (clear)
Odor:	No data available
pH:	No data available
Freezing point/range:	No data available
Initial Boiling point/range:	No data available
Flashpoint:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	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
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Viscosity:	No data available
Explosive Properties:	No data available
Oxidizing Properties:	No data available

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

Acid chlorides, acid anhydrides, strong oxidizing agents, alkali metals, reducing agents, acids, halogens, peroxides

10.6 Hazardous Decomposition Products

Other decomposition products: no data available; Under fire conditions: 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

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

May cause eye irritation

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 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.
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.
ACGIH: Contains a component that is a confirmed animal carcinogen with unknown relevance to humans (ethanol, Group A3*)

*Carcinogenicity – Mouse – Oral, Tumorigenic; Equivocal tumorigenic agent by RTECS criteria; Liver, Tumors, Blood, Lymphomas (including Hodgkin's disease).

Reproductive toxicity

No data available

Teratogenicity

No data available

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

May cause drowsiness or dizziness [PGME]; Respiratory system, central nervous system [2-Butanol]; Causes damage to organs (liver, kidney) [Methanol]

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

No data available

Aspiration hazard

No data available

Additional Information

Exposure Routes: inhalation, ingestion, skin and/or eye contact

RTECS #: UB7700000 (PGME); KQ6300000 (Ethanol); EO1750000 (2-Butanol); PC1400000 (Methanol)

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The toxicological properties of this material have not been fully investigated.

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

12.6 Other Adverse Effects

No Data Available

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

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

Methanol (CAS #67-56-1); 2-Butanol (CAS #78-92-2)

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Right to Know Components

PA: PGME (CAS #107-98-2); Ethanol (CAS #64-17-5); 2-Butanol (CAS #78-92-2); Methanol (CAS #67-56-1)

MA: PGME (CAS #107-98-2); Ethanol (CAS #64-17-5); 2-Butanol (CAS #78-92-2); Methanol (CAS #67-56-1)

NJ: PGME (CAS #107-98-2); Ethanol (CAS #64-17-5); 2-Butanol (CAS #78-92-2); Methanol (CAS #67-56-1)

CALIFORNIA PROPOSITION 65

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

Methanol (CAS #67-56-1)

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

Acute Tox: Acute toxicity

Flam. Liq.: Flammable Liquid

Cat.: Category

STOT SE: Specific target organ toxicity, single exposure

Eye Irrit.: Eye irritation

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: 3
Physical Hazard: 0

NFPA Rating

Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazard: 0

Revision

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 –