

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: NANOMYTE® SR-500EC

CAS Number: This product has not been registered in the CAS Registry database

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

Identified Uses: Easy-to-clean 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

Flammable liquids (Category 4), H227

Skin Corrosion/Irritation (Category 2), H315

Serious Eye Damage/Eye Irritation (Category 1), H318

2.2 GHS Label elements, including precautionary statements

Pictogram(s):



Signal Word: Danger

Hazard Statement(s):

H225 Highly flammable liquid and vapor

H227 Combustible liquid

H315 Causes skin irritation

H318 Causes serious eye damage

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

- P332 + P313 IF SKIN irritation occurs: 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.
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Repeated exposure may cause skin dryness or cracking

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Components

Component Name	Formula	CAS #	Weight %
tert-Butyl Acetate	C ₆ H ₁₂ O ₂	540-88-5	78 – 82%
Hazard Classification: <i>Flammable liquids (Category 2, H225)</i>			
Trade Secret	n/a	n/a*	17 – 21%
Hazard Classification: <i>Flammable liquids (Category 4, H227); Skin Corrosion/Irritation (Category 2, H315); Serious Eye Damage/Eye Irritation (Category 1, H318)</i>			

*CAS number is unknown or has not been assigned to this material

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. Consult a physician.

After Skin Contact:

Immediately remove all contaminated clothing. Rinse skin with copious amounts of water / shower. Consult a physician.

After Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

After Ingesting:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately call a POISON CENTER or doctor/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 Special Hazards Arising from the Substance or Mixture

Carbon oxides, carbon monoxide, carbon dioxide, nitric oxides, isocyanate-containing vapors, silicon dioxide, incompletely burned carbon compounds, formaldehyde. Under certain conditions of combustion traces of other toxic substances cannot be excluded.

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. Avoid contact with skin and eyes. 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. Do not flush with water (methanol in case of hydrolysis). Transfer into suitable containers for recovery or disposal according to local regulations.

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. 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. Avoid moisture. 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:

Component	CAS #	Value	OSHA (OEL)	ACGIH (TLV)	NIOSH (REL)
tert-Butyl acetate	540-88-5	TWA	200 ppm 950 mg/m ³	200 ppm 606 mg/m ³	200 ppm 950 mg/m ³
Remarks:	Upper Respiratory Tract irritation; Eye irritation				

Notes: OEL – Occupational 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

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi-purpose 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).

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 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.

Splash Contact: Nitrile rubber (min 0.4mm thick)

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.

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

Melting point/range: < -57.99 °C (< -72.38 °F) [tert-Butyl Acetate]

Initial Boiling point/range: 97 – 98 °C (207 – 208 °F) [tert-Butyl Acetate]

Flashpoint: 4 °C (39 °F) - closed cup [tert-Butyl Acetate]

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

9.2 Other Information

No additional information 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

Vapors may form explosive mixture with air. Hydrolysis.

10.4 Conditions to Avoid

Humidity. Keep away from heat, sparks and flames

10.5 Incompatible Materials

Oxidizing agents, humid air, water, acids, bases

10.6 Hazardous Decomposition Products

Carbon oxides, methanol in case of hydrolysis, isocyanate-containing vapors, silicon dioxide, carbon oxides, incompletely burned carbon compounds, formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
tert-Butyl Acetate	4,100 mg/kg (rat, male)	2,000 mg/kg (rabbit, m/f)	No data available
Trade Secret	2,091.78 mg/kg	No data available	No data available

Skin corrosion/irritation

Irritating to skin

Serious eye damage/eye irritation

Risk of serious damage to eyes

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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, ACGIH, NTP, or EPA classification.

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: AF7400000 (tert-Butyl Acetate)

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Component	Green Algae (EC50)	Freshwater Fish (LC50)	Water Flea (EC50)
tert-Butyl Acetate	No data available	240 mg/l – 96 hours (rainbow trout)	350 mg/l – 48 hours
Trade Secret	No data available	No data available	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

12.6 Other Adverse Effects

Discharge into the environment must be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Waste must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. DO NOT HEAT or cut the empty container with electric or gas torch.

Contaminated Packaging

Empty containers must be handled with care due to product residue. Handle uncleaned containers like the product itself. Do not reuse empty containers and dispose of in accordance with national and local regulations.

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

Ground Limited Quantities: 1L (net) / 30kg (gross)

Air Excepted Quantities (EQ): 30mL (net) / 0.5L (gross) [E2]

Air Limited Quantities (LQ): 1L (gross) [Y341]

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 (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard

Right to Know Components

<u>Component</u>	<u>CAS #</u>	<u>States</u>
tert-Butyl Acetate	540-88-5	MA, NJ, PA Right to Know

Toxic Substances Control Act (TSCA) Chemical Substance Inventory

tert-Butyl Acetate (CAS #540-88-5)

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

Health Hazard: 2
Flammability Hazard: 3
Physical Hazard: 1

NFPA Rating

Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazard: 1

IMPORTANT

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 –