

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

### 1.1 Product Identifiers

Product Name: NANOMYTE® SR-100EC (Part C)  
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: Abrasion resistant, easy-to-clean 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 Number

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  
Acute toxicity, Oral (Category 4), H302  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335  
Carcinogenicity (Category 2), H351

### 2.2 Label Elements

GHS Label Elements, including precautionary statements

Pictogram(s): 

Signal Word: Danger

#### Hazard Statement(s):

H225 Highly flammable liquid and vapor  
H302 Harmful if swallowed  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation  
H351 Suspected of causing cancer

#### Precautionary Statement(s):

P201 Obtain special instructions before use.  
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.
- 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.
- P281 Use personal protective equipment as required.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep 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.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 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

May form explosive peroxides.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Component Name	Synonyms	Formula	CAS #	Concentration
Tetrahydrofuran	THF	C <sub>4</sub> H <sub>8</sub> O	109-99-9	25 – 35 %
Proprietary Resin	N/A	N/A	N/A	65 – 75 %

## 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, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### After Skin Contact:

Wash with soap and copious amounts of water. Seek medical attention if irritation develops.

#### After Eye Contact:

Immediately flush eyes copiously with water for at least 15 minutes. Seek medical attention.

#### After Ingestion:

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 Special Hazards Arising from the Substance or Mixture

Carbon oxides

### 5.3 Advice for Firefighters

Wear full protective clothing and self-contained breathing apparatus approved for firefighting.

### 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.

### 6.4 Reference to Other Sections

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 inhalation 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. See Section 2.2 for precautions.

### 7.2 Conditions for Safe Storage (including any incompatibilities)

For best coating performance, keep container tightly sealed and store in a refrigerator or freezer until ready to use. Avoid contamination with strong oxidizing agents or acids. Keep away from heat, sparks, flames and other sources of ignition. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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 #	Value	OSHA (OEL)	ACGIH (TLV)	NIOSH (REL)
Tetrahydrofuran	109-99-9	TWA	200 ppm 590 mg/m <sup>3</sup>	50 ppm	200 ppm 590 mg/m <sup>3</sup>
<b>Remarks:</b>	Central Nervous System impairment; Upper Respiratory Tract irritation; Kidney damage; Confirmed animal carcinogen with unknown relevance to humans; Danger of cutaneous absorption				

**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 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).

#### 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 / 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.

#### Body Protection:

Complete suit protecting against chemicals; flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration & amount of dangerous substance at the 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:	Mild
pH:	No data available
Melting / Freezing point:	No data available
Initial Boiling point/range:	No data available
Flashpoint:	No data available
Auto-ignition Temperature:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	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
Relative Density:	No data available
Water Solubility:	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

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No Data Available

### 10.2 Chemical Stability

May form peroxides upon 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 and sparks.

### 10.5 Incompatible Materials

Strong oxidizing agents, acids

### 10.6 Hazardous Decomposition Products

No data available; in the event of fire, see Section 5.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects (of THF)

#### Acute Toxicity THF

Oral LD50: 1,650 mg/kg (rat)

Inhalation LC50: 14.7 mg/l (rat – 6h)

Dermal LD50: 2,000 mg/kg (rat)

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

Eyes – Rabbit; Result: Risk of serious damage to eyes (Draize Test)

#### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

In vivo tests did not show mutagenic effects

#### Carcinogenicity

Suspected human carcinogens [THF]

**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.

#### Reproductive toxicity

No data available

#### Teratogenicity

No data available

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

May cause drowsiness or dizziness (nervous system); may cause respiratory irritation

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

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard**

No aspiration toxicity classification

**Additional Information**

**RTECS:** LU5950000

Central nervous system depression, Cough, chest pain, Difficulty in breathing, Exposure to high airborne concentrations can cause anesthetic effects.

Stomach - Irregularities - Based on Human Evidence (both)

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

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**SECTION 12: ECOLOGICAL INFORMATION (Tetrahydrofuran only)**

**12.1 Toxicity**

Toxicity to Fish: LC50 - Pimephales promelas (fathead minnow) - 2,160 mg/l - 96 h

Toxicity to daphnia and other aquatic: EC50 - Daphnia magna (Water flea) - 382 mg/l - 24 h

Toxicity to algae: Growth inhibition IC50 - Algae - 3,700 mg/l - 192 h

**12.2 Persistence and Degradability**

Biodegradability: (OECD Test Guideline 301)

Remarks: According to the results of tests of biodegradability this product is not readily biodegradable.

**12.3 Bioaccumulative Potential**

No bioaccumulation is to be expected (log Pow ≤ 4)

**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

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods**

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated Packaging**

Dispose of as unused product.

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**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

HST Code / 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, 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>
Tetrahydrofuran (THF)	109-99-9	MA, NJ, PA Right to Know

##### 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.

#### 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: 0

#### NFPA Rating

Health Hazard: 2  
Flammability Hazard: 3  
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.