

## SECTION 1: PRODUCT & COMPANY IDENTIFICATION

### 1.1 Product Identifiers

Product Name: NANOMYTE® WaterOFF!

CAS Number: A CAS number has not been assigned to this product

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

Identified Uses: Water repellent treatment for glass

### 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

Corrosive to Metals (Category 1), H290

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

### 2.2 Label Elements

GHS Label Elements, including precautionary statements

Pictogram(s): 

Signal Word: Danger

#### Hazard Statement(s):

H225 Highly flammable liquid and vapor

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

#### 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.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + 312 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.
- 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 #	Weight %
Isopropyl Alcohol	Isopropanol, 2-Propanol, Rubbing alcohol, IPA	C <sub>3</sub> H <sub>8</sub> O	67-63-0	89%
<b>Hazard Classification:</b> Flam. Liq. (Cat. 2, H225); Eye Irrit. (Cat. 2A, H319); STOT SE, CNS (Cat. 3, H336)				
Proprietary Component	n/a	n/a	n/a	10%
<b>Hazard Classification:</b> Not a hazardous substance				
Sulfuric Acid	Sulphuric acid, Oil of vitriol, Dihydrogen sulfate	H <sub>2</sub> O <sub>4</sub> S	7664-93-9	1%
<b>Hazard Classification:</b> Corrosive to Metals (Cat. 1, H290); Skin corrosion (Cat. 1A, H314); Serious eye damage (Cat. 1, H318)				

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.

#### In Case of Inhalation:

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

#### In Case of Skin Contact:

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In Case of Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### In Case of 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 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

Silicon Dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Sulfur oxides. Combustible – pay attention to flashback. Vapors can accumulate in low areas. Development of hazardous combustion gases or vapors is possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

## 5.3 Advice for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 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. 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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Clean up affected area and dispose of according to local regulations.

### 6.4 Reference to Other Sections

For incompatibilities, see Sections 7 and 10. 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 (work under hood). 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)

Do not use metal containers. Keep container tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Air sensitive. Forms explosive peroxides on 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 #	Value	OSHA (OEL)	ACGIH (TLV)	NIOSH (REL)
Isopropyl Alcohol	67-63-0	TWA	400 ppm	200 ppm	400 ppm / 980 mg/m <sup>3</sup>
<b>Remarks:</b>	Not classifiable as a human carcinogen				
Sulfuric Acid	7664-93-9	TWA	1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
<b>Remarks:</b>	None				

**Notes:** OEL – Occupational Exposure Limit; TLV – Threshold Limit Values; REL – Recommended Exposure Limits

### 8.2 Exposure Controls

#### Appropriate Engineering Controls

**NANOMYTE® WaterOFF!**

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 after working with substance. Change contaminated clothing.

**Personal Protective Equipment**

**Respiratory Protection:**

Required when vapors/aerosols are generated. Recommended filtering standards: DIN EN 143, DIN 14387 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:**

Tightly fitting safety goggles recommended. Use eye protection equipment that is tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Hand Protection:**

Handle with chemical resistant gloves (butyl-rubber gloves at least 0.7mm thick recommended). 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.

**Skin and Body Protection:**

Acid resistant and flame retardant antistatic protective clothing recommended.

**Control of Environmental Exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Risk of explosion.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on Basic Physical and Chemical Properties**

Form:	Liquid, clear
Color:	Colorless
Odor:	Alcohol-like
VOC Content:	No data available
pH:	3
Freezing point/range:	No data available
Initial Boiling point/range:	No data available
Flashpoint:	No data available
Evaporation Rate:	No data available
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available
Vapor Pressure:	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**

Vapors may form explosive mixture with air.

## 10.2 Chemical Stability

May form peroxides on prolonged storage. Date container and periodically test for peroxides.

Reacts with air to form peroxides. Date container and periodically test for peroxides. The product is chemically stable under standard ambient conditions (room temperature).

## 10.3 Possibility of Hazardous Reactions

Vapors may form explosive mixture with air. Not all hazardous reactions are known.

## 10.4 Conditions to Avoid

Heat, flames, and sparks

## 10.5 Incompatible Materials

Acid anhydrides, Aluminum, Halogenated compounds, Acids, Strong oxidizing agents, Metals

## 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

Component	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Isopropyl Alcohol	5,840 mg/kg (rat)	37.5 mg/l - vapor (rat – 4hr)	12,800 mg/kg (rabbit)
Proprietary Component	No data available	No data available	No data available
Sulfuric Acid	2,140 mg/kg (rat)	No data available	No data available

#### Skin corrosion/irritation

Extremely corrosive and destructive to tissue (sulfuric acid)

#### Serious eye damage/eye irritation

Causes serious eye irritation and damage

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No classification data on the carcinogenic properties of this product (or its components) is available from EPA, IRAC, NTP, OSHA or ACGIH.

#### 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)

No data available

#### Aspiration hazard

No data available

#### Additional Information

**RTECS:** NT8050000 (Isopropyl Alcohol); WS5600000 (Sulfuric Acid)

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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Component	Algae (IC50)	Freshwater Fish (LC50)	Water Flea (EC50)
Isopropyl Alcohol	1,000 mg/l – 72 hr	9,640 mg/l – 96 hr	13,299 mg/l – 48 hr
Proprietary Component	No data available	No data available	No data available
Sulfuric Acid	100 mg/l – 72 hr	No data available	100 mg/l – 48 hr

### 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

Contact a licensed professional waste disposal service to dispose of this material. Waste material must be disposed of according to national & local regulations. Leave chemicals in original containers. Don't mix with other waste.

#### Contaminated Packaging

Dispose of as unused product.

## SECTION 14: TRANSPORT INFORMATION

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

**UN number:** 2924

**Class:** 3 (8)

**Packing Group:** II

**Proper Shipping Name:** Flammable Liquid, corrosive, n.o.s. (Mixture of isopropanol and sulfuric acid)

### 14.2 International Maritime Dangerous Goods (IMDG)

**UN number:** 2924

**Class:** 3 (8)

**Packing Group:** II

**Proper Shipping Name:** Flammable Liquid, corrosive, n.o.s. (Mixture of isopropanol and sulfuric acid)

### 14.3 International Air Transport Association (IATA)

**UN number:** 2924

**Class:** 3 (8)

**Packing Group:** II

**Proper Shipping Name:** Flammable Liquid, corrosive, n.o.s. (Mixture of isopropanol and sulfuric acid)

### 14.4 Additional Transport Information

HS 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

**Components:** Sulfuric Acid (CAS #7664-93-9)

#### SARA 313 Components

**Components:** Isopropyl Alcohol (CAS #67-63-0); Sulfuric Acid (CAS #7664-93-9)

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Right to Know Components**

<u>Component</u>	<u>CAS #</u>	<u>List Citations</u>
Isopropyl Alcohol	67-63-0	MA, NJ, PA
Sulfuric Acid	7664-93-9	MA, NJ, PA

**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.

**Toxic Substances Control Act (TSCA) Chemical Substance Inventory**

**Components:** Isopropyl Alcohol (CAS #67-63-0); Sulfuric Acid (CAS #7664-93-9)

**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
Car.:	Carcinogenicity	Resp. Sys.:	Respiratory System
Cat.:	Category	Skin Irrit.:	Skin irritation
CNS:	Central Nervous System	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.

**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 -