

**Weiss Bonya**

**Gemini<sup>®</sup>**

# Superhydrophobic Finishing For Textile

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Material Safety Data Sheet

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## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

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### Product Name

"Gemini" Superhydrophobic Finishing For Textile

### Tradenames and Synonyms

"Gemini" AnT-180 A

### HUNAN WEISS BONYA CO. , LTD

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## 2. HAZARDS IDENTIFICATION

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### Classification according to Regulation 29CFR 1910 1200

Not a hazardous substance

### GHS Label elements, including precautionary statements

#### Pictogram

None Required

#### Symbol

None Required

### Signal word

None Required Not Hazardous

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS-No.	Concentration
Silicone polymer	Trade secret	20~35%
Crosslinker	Trade secret	1~5%
Water	7732-18-5	60~80%
Acetic acid	64-19-7	<1

Ethanol	64-17-5	<1
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Any unidentified components and/or concentrations (exact percentages) are considered trade secrets.

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## 4. FIRST AID MEASURES

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### First Aid

#### INGESTION

If swallowed, wash out mouth with copious amounts of water provided person is conscious, call a physician.

#### INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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## 5. FIRE FIGHTING MEASURES

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### Flammability of the Product

Non-Flammable

### Extinguishing Media

Water spray, alcohol resistant foam, dry chemical, or carbon dioxide. Cool all affected containers with flooding quantities of water.

### Fire Fighting Instructions

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazard(s): emits toxic fumes under fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Safeguards (Personnel)

Avoid breathing vapor mist, or gas. Ensure adequate ventilation. Wear protective equipment including rubber gloves, and eye protection. Keep unprotected persons away. Normal measures of preventive fire protection.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do. Take precautions to ensure product does not contaminate the ground or enter the drainage system.

### **Spill Clean Up**

Absorb on dry sand or vermiculite, sweep up and place in container for disposal according to local regulations.

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## **7. HANDLING AND STORAGE**

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### **Handling (Personnel)**

User exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### **Storage**

Store in cool, well ventilated area. Keep container tightly closed. Avoid direct sunlight.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Control parameters**

**TWA, Time-weighted average, STEL, Short-term exposure limit**

<b>Component</b>	<b>CAS</b>	<b>Inst.</b>	<b>Standard</b>
Acetic acid	64-19-7	ACGIH	TWA: 10 ppm STEL: 15 ppm
Acetic acid	64-19-7	EU	TWA: 10 ppm STEL: 20 ppm
Acetic acid	64-19-7	TW OEL	TWA: 10 ppm
Ethanol	64-17-5	ACGIH	STEL: 1000 ppm
Ethanol	64-17-5	EU	-
Ethanol	64-17-5	TW OEL	TWA: 1000 ppm

### **Engineering controls**

Safety shower and eye bath. Mechanical exhaust required. More detail see section 7

### **Personal protective equipment**

Respiratory: 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 approved under appropriate government standards such as NIOSH(US) or CEN(EU).

Hand: Protective gloves. gloves must be inspected prior to use.

Eyes: Chemical safety goggles.

### **General Hygiene measures**

Wash thoroughly after handling.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: White translucent liquid

Odour: Slightly sweetish

Density: 0.95~1.05 g/cm<sup>3</sup>

Boiling point /range: 100 °C

PH: ~7

Solubility: Soluble in water

Flash Point: None

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## 10. STABILITY AND REACTIVITY

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### **Stability**

Stable: stable under recommended storage conditions.

Materials to avoid: strong oxidizing agents, finely divided active metals, alkali and alkaline earth metals.

Conditions to avoid: heat, flames and sparks, extremes of temperature, moisture and direct sunlight.

### **Hazardous decomposition products**

Hazardous decomposition products: carbon oxides.

### **Hazardous polymerization**

Hazardous polymerization: will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### **Acute Toxicity**

Oral: LD50 Rat: >5,000 mg/kg

### **Route of exposure**

Inhalation: may be harmful if inhaled. Irritating to the respiratory tract.

Ingestion: may be harmful if swallowed.

Skin: no skin irritation.

Eyes: no eye irritation.

### **Signs and symptoms of long term exposure**

#### **Germ cell mutagenicity**

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471  
Mutagenicity (mammal cell test): chromosome aberration.  
Result: negative

**Carcinogenicity**

This information is not available.

**Reproductive toxicity**

This information is not available.

**Teratogenicity**

This information is not available.

**Specific target organ toxicity - single exposure**

This information is not available.

**Specific target organ toxicity - repeated exposure**

This information is not available.

**Aspiration hazard**

This information is not available.

**Signs and symptoms of exposure**

To the best of our knowledge, The toxicological properties of this product have not been fully determined.

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## 12. ECOLOGICAL INFORMATION

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**Toxicity**

Fish: LC50 Fathead minnow: >1,000 mg/l; 96 h

Daphnia and other aquatic invertebrates: EC50 Water flea: 752 mg/l; 48 h

Algae: EC50 Green algae: 3,600 mg/l; 48 h

Bacteria: EC50 Bacteria: >5,000 mg/l; 30 min

**Persistence and degradability**

Biodegradability

80 %; 28 d

OECD Test Guideline 302B

Readily biodegradable

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Other adverse effects**

No data available.

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## 13. DISPOSAL CONSIDERATIONS

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### **Disposal operations**

Material should be disposed of in accordance with local, state and federal regulations.

### **Disposal of packaging**

Dispose of as special waste in compliance with local and national regulations  
Observe all federal, state and local environmental regulations.

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## 14. TRANSPORTATION INFORMATION

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### **UNRTDG**

**Not regulated as a dangerous good**

### **IATA-DGR**

**Not regulated as a dangerous good**

### **IMDG-Code**

**Not regulated as a dangerous good**

**Packing group : None**

**Environmental hazards : None**

**Marine pollutant : None**

**NOT classified as dangerous in the meaning of transport regulations**

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## 15. REGULATORY INFORMATION

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**IECSC:** On the inventory, and in compliance with the CN regulations

**EINECS:** On the inventory, and in compliance with the EU regulations

**ENCS:** On the inventory, and in compliance with the JP regulations

**KECI:** On the inventory, and in compliance with the KR regulations

**EPCRA:** Emergency Planning and Community Right-to-Know

**TSCA:** On the inventory, and in compliance with the US regulations

**AICS:** On the inventory, and in compliance with the AU regulations

**SARA 304** Extremely Hazardous Substances Reportable Quantity

This material does NOT contain any components with a section 304 EHS RQ

**SARA 302** Extremely Hazardous Substances Threshold Planning Quantity

This material does NOT contain any components with a section 302 EHS TPQ

**SARA 311/312 Hazards:** NO SARA Hazards

**SARA 313:** 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

**CERCLA Reportable Quantity :** This material contains following components with a CERCLA RQ: Acetic acid CAS 64-19-7 RQ=2,268kg(5,000lbs)

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## 16. OTHER INFORMATION

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NFPA/HMIS Rating: Health: 1 Flammability: 0 Reactivity 0

REFERENCE: Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012), GHS Classification Guidance for Enterprises 2013 Revised Edition.

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