

Weiss Bonya

Gemini[®] Superhydrophilic Anti Fog Agent

Material Safety Data Sheet

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Product Name

"Gemini" Superhydrophilic Anti Fog Agent

Tradenames and Synonyms

"Gemini" AnF-113

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2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
PU Resin	Trade secret	30~40%
Ethanol	64-17-5	7~12%
Water	7732-18-5	50~60%

Any unidentified components and/or concentrations (exact percentages) are considered trade secrets.

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Component	CAS	Inst.	Standard
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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Translucent liquid

Odour: Slight

Density: 0.95~1.05 g/cm³
Solubility: Soluble in water
Flash Point: None

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

PU Resin

Oral: LD50 Rat: 5,000 mg/kg

Dermal: LD50 Rabbit: > 5,000 mg/kg

Ethanol

Oral: LD50 Rat: 10,470 mg/kg

Dermal: LD50 Rabbit: > 16,000 mg/kg

Inhale: LC50 Rat: 125 mg/l; 4 h

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.

12. ECOLOGICAL INFORMATION

Toxicity

Fish: LC50 Fathead minnow: > 500 mg/l; 96 h

Daphnia and other aquatic invertebrates: EC50 Water flea: > 600 mg/l; 48 h

Algae: EC50 Green algae: > 2,000 mg/l; 48 h

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.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

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 does NOT contain any components with a CERCLA RQ

16. OTHER INFORMATION

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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