

Material Safety Data Sheet

1. Gemini® Superhydrophilic Anti Fog Agent AnF-115

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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

Signal word

None Required Not Hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS-No. | Concentration |
|-----------|-----------|---------------|
| Resin | | 1-43% |
| Water | 7732-18-5 | 57-99% |

4. FIRST AID MEASURES

First Aid

INGESTION

Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

INHALATION

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

SKIN CONTACT

In case of contact, wash with water and soap as a precaution.

EYE CONTACT

In case of contact, rinse with plenty of water. If eye irritation persists, consult a specialist.

General advice, when symptoms persist or in all cases of doubt seek medical advice.

5. FIRE FIGHTING MEASURES

Flash point

None

Extinguishing Media

The product itself does not burn.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire Fighting Instructions

Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean Up

Shovel into suitable container for disposal.

Accidental Release Measures

Prevent material from entering sewers, waterways, or low areas.

7. HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist from overheated material. Avoid contact with eyes, skins, clothing. Wash thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Storage

Store in well ventilated place. Keep container closed to prevent contamination. Keep cool. Protect from sunlight.

Store away from other materials, keep away from open flames.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In the event that the polymer is heated above 100° C (212° F), local ventilation should be used to avoid exposure to fumes.

Personal protective equipment

Respiratory: No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.

Hand: Additional protection: No particular glove type is recommended, but nitrile gloves may be used.

Eyes: Chemical safety goggles.

Skin and body protection : No PPE is specified however, avoid contact with skin, eyes, and clothing. Preventive skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid at 30 °C(86 °F)

Color : light yellow clear

pH : 6~7

Flash point : No flash point

Specific gravity : NA

Water solubility : soluble

10. STABILITY AND REACTIVITY

Stability

Stable: stable under recommended storage conditions.

Conditions to avoid

Avoid with Acids, Bases, Oxidizing agents, Reducing agents

Flames. Heat. Sun light. Static electricity

Hazardous decomposition

Carbon oxides, Sulfur oxides, Nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Gemini® Superhydrophilic Anti Fog Agent AnF-115

No Acute toxicity data available
No Irritant properties data available
No Allergenic and sensitizing effects data available
No Mutagenic effects data available
No Carcinogenic effects data available
No Teratogenic effects data available
No reproductive toxicity data available
No STOT-single/repeated exposure data available
No Aspiration hazard data available

12. ECOLOGICAL INFORMATION

No Aquatic toxicity data available
No Persistence and degradability data available
No Bioaccumulative potential data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal

In accordance with local and national regulations.

Environmental Hazards

Dispose of container properly.
If recycling is not practicable, dispose of in compliance with local 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

NOT classified as dangerous in the meaning of transport regulations

15. REGULATORY INFORMATION

EPCRA: Emergency Planning and Community Right-to-Know

TSCA : On the inventory, or in compliance with the inventory

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

Ensure this material in compliance with federal requirements and ensure conformity to local regulations

16. OTHER INFORMATION

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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