

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: UF 88UL

PRODUCT CLASS: Underfill Adhesive

REVISION DATE: 02/12/2026

COMPANY NAME: YINCAE Advanced Materials, LLC

ADDRESS: 93 Broadway, Menands, NY 12204

EMERGENCIES: Call CHEMTEC (800) 424-9300

PRODUCT INFORMATION: Call 001-518-452-2880

2. HAZARDOUS IDENTIFICATION

Hazardous Class:

Skin Corrosion / Irritation: Class 2

Serious Eye Damage / Eye Irritation: Class 2B

Acute Toxicity / Inhalation: Class 5

Hazardous to the aquatic environment / Chronic toxicity: Class 2

Pictogram: WARNING



Hazard statement:

H315: Cause skin irritation

H319: Cause serious eye irritation

H333: May be harmful if inhaled

H411: Toxic to aquatic life with long-lasting effects

Prevention Precautionary Statement:

P 261: Avoid breathing dust/fume/gas/mist/vapours/pray

P 264: Wash thoroughly after handling

P 273: Avoid release to the environment

P 280: Wear protective gloves/ protective clothing/ eye protection

P 312: Call a POISON CENTER/Doctor if you feel unwell
P 362: Take off contaminated clothing
P 391: Collect spillage
P 302+P 352 If on skin: wash with plenty of water
P 304+P 340 If Inhaled: Remove the person to fresh air and keep comfortable for breathing
P 332+P 313 If Skin Irritation or rash occurs: Get medical advice/ attention
P 337+P 313 If Eyes Irritation persists: Get medical advice/ attention
P 305+P 351 + P 338 If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continuous rinsing if possible.

3. COMPONENTS/INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions

Chemicals	CAS No.	EINECS	WT%
Mixed Epoxy Resins	129915-35-1	-	30-50
Hardener	25550 – 51 – 0	213 – 308 – 7	25-45
Anhydride	108-30-5	203 – 570 – 0	5-10

4. FIRST AID MEASURE

Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: If the patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash affected areas with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

Auto-Ignition Temperature: Not Established

Flammable Limits: Limits not established

Extinguishing Media: Use extinguishers appropriate for the conditions. Foam, dry chemical, water spray.

Special Fire Fighting Procedures: Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Measures for environmental protection: Do not allow products to reach sewage systems or water bodies.

Measures for cleaning/collecting: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

7. HANDLING & STORAGE

Handling Precautions: Keep containers tightly sealed when not in use carefully to avoid spills. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is necessary to control airborne levels especially during heating.

Eyes: Chemical safety glasses/goggles.

Respirator: A NIOSH approved EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated.

Skin: Compatible chemical resistant gloves, such as nitrile should be worn. Protective outer garment, apron, and sleeves are appropriate.

Body: Lightweight protective clothing.

Other: Eyewash foundation in the work area. Avoid the use of contact lens especially during mixing and heating applications.

Work/Hygienic Practices: Maintain good housekeeping. Clean up spills immediately. Avoid eating, smoking or drinking in the work area. Immediately remove all contaminated clothing. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance	Epoxy
Odor	Slight characteristic odor
Specific Gravity	1.05
Vapor Pressure	Not applicable
Vapor Density	(air=1) Not applicable
Boiling Point	Not established
Melting Point	Not established
pH	Not established
Solubility in Water	Not established

10. STABILITY & REACTIVITY

General	Stable
Conditions to Avoid	High Temperature
Incompatible Materials	Not Established
Hazardous Decomposition/Combustion	Not Established
Hazardous Polymerization	Not Established

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Primary Irritant Effect:

On the skin: Irritant to skin and mucous membranes DR.

On the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

12. ECOLOGICAL INFORMATION

❖ **General Notes:**

- ❖ Water hazard class 2 (Self-assessment): hazardous for water
- ❖ Do not allow the product to reach ground water, water course or sewage systems
- ❖ Danger to drinking water if even small quantities leak into the ground

13. DISPOSAL CONSIDERATIONS

❖ **Product Recommendation:**

- ❖ Must not be disposed of together with household garbage. Do not allow products to reach the sewage system

❖ **Uncleaned Product Recommendation:**

- ❖ Disposal must be made according to all Federal, State and Local environmental regulations.

14. TRANSPORTATION INFORMATION

Transport in accordance with applicable regulations and requirements

US DOT: Not regulated

Maritime transport IMDG

Marine pollutant: No

Transport/Additional information: Not dangerous according to the above specifications.

15. REGULATORY INFORMATION

- ❖ Must not be disposed of together with household garbage. Do not allow products to reach the sewage system. The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET SEQ)
- ❖ The information in this Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Package for Supply) Regulations 2009 (CHIP 4) and (EC) 1272/2008, CLP regulation
- ❖ This product has been classified in accordance with the hazard criteria of the 1907/2006 (EC) (REACH)

SARA 313 Listing – 40 CFR 372.65 – None

All ingredients are listed in the EPA TSCA Inventory

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xi Irritant/ Xn Harmful

Hazard-determining components of labeling

Epoxy resin and Anhydride

Risk phrases:

H315: Causes skin irritation – Category 2

H319: Cause serious eye irritation – Category 2B

H333: May be harmful if inhaled – Category 1B

H411: Toxic to aquatic life with long-lasting

Safety phrases:

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37: Wear suitable gloves

16. DISCLAIMER

HMIS Hazard Rating: Health: 1

Fire: 1

Reactivity: 0

The information contained herein relates only to the specific materials identified. We believe such information is accurate and reliable as of the date this S.D.S sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information.