



# Material Safety Data Sheet

Total 3 pages

## UF1230 - Epoxy Underfill Adhesive

MSDS No.: 1126051230

Revision Date: 2008/01/15, 2011/11/16,  
2012/07/30, 2014/10/10

### 1. Manufacturing And Product Information

Manufacturer:  
United Adhesives Inc.  
318 Half Day Rd, #189  
Buffalo Grove, IL 60089, USA  
Phone: +1 (224) 436 0077

Product Disposal Information:  
CHEMTREC: **(989) 496-5900**

**24 Hour Emergency Telephone:**  
**1-800-424-9300**

Trade Name: **UF1230 (One component)**  
Chemical Name or Synonym:  
Low CTE Epoxy Underfill Adhesive

Generic Description: Low CTE (Coefficient of Thermal Expansion) Epoxy Solid  
Physical Form: Semi-fluid  
Color: Blue  
Odor: Light odor

NFPA Profile:      Health 1      Flammability 1      Instability/Reactivity 0  
Note: NFPA = National Fire Protection Association

### 2. Components

CAS Number	Chemical Name	Percent
Mixture of epoxy resin, anhydride with silica filler	Non-Hazardous Ingredients	> 99 %
[288-32-4]	imidazole	< 0.2%

Imidazole may be corrosive as defined in 29 CFR 1910.1200.  
No other component is hazardous as defined in 29 CFR 1910.1200.

### 3. Hazards Identification

Product is considered as non-hazardous under normal and expected usage

Eye Health Effects/ Symptoms:	Flush with water. Particles should be removed by physician.
Skin Health Effects /Symptoms:	Wash with soap and water to remove residue.
Inhalation Health Effects / Symptoms:	Not Applicable
Ingestion Health Effects / Symptoms:	Consult Physician

### 4. First Aid Measures

<b>Eyes:</b>	Flush with water. Particles should be removed by physician.
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<b>Skin:</b>	Wash with soap and water to remove residue.		
<b>Inhalation:</b>	Not Applicable		
<b>Ingestion:</b>	Consult Physician		
<b>5. Fire And Explosion Data</b>			
Flammability:	No		
Flash Point (Method):	Not Applicable (N/A)		
Flammable Conditions:	Will burn, as a combustible solid		
Auto ignition Temperature:	N/A		
LEL: N/A	UEL: N/A	TLV-TWA (mg/m3): N/A	
Extinguishing Media	Use water or other medias appropriate for surrounding materials		
Special Procedure:	Wear self-contained breathing apparatus (SCBA)		
Unusual Fire & Explosion Hazards	None		
Combustion Produces:	Oxides of carbon, silicon oxide		
Sensitivity to Impact:	None		
Sensitivity to Static Electricity:	None		
Additional Information:	Material will burn as combustion solid		
<b>6. Accidental Release Procedures</b>			
Spill Procedure (Less than 1 Gallon):	Pick up spill material to prevent slipping hazard. No special precaution required.		
Spill Procedures (More then 1 Gallon):	Pick up spill material to prevent slipping hazard. No special precaution required.		
<b>7. Handling and Storage Procedures</b>			
No special handling and / or storage hazards			
<b>8. Exposure Controls / Personal Protection</b>			
Ventilation:	Not required		
Respiratory:	Not required		
Eyes:	Safety glasses with side shields		
Clothing / Gloves:	Rubber gloves		
<b>9. Physical and Chemical Properties</b>			
Boiling Point (degree C):	N/A	Melting Point (degree C):	N/A
Vapor Pressure (mm Hg):	N/A	Percent Volatiles:	< 0.1%
Vapor Density (air =1)	Solid	Specific Gravity:	1.67 to 1.73
Evaporation Rate:	N/A	Oxidizing Properties	Strong oxidizers

Solubility:	N/A	PH:	N/A
Oil / Water Coefficient:	N/A	Odor Threshold:	No odor
Physical State:	Solid	Odor & Appearance:	Blue, No odor
<b>10. Stability and Reactivity</b>			
Stability:	Stable		
Incompatibility:	None		
Decomposition:	Oxides of carbon, silicon oxide		
Polymerization:	Not occur		
<b>11. Toxicological Information</b>			
Eye:	N/A	Inhalation:	N/A
Skin:	N/A	Ingestion:	N/A
Sensitization:	None	Irritancy:	None
Mutagenicity:	None	Teratogenicity:	None
Reproduction:	None		
Conditions Aggravated by Exposure:	None		
Carcinogenicity:	None		
NTP:	None	OSHA:	None
IARC:	None	Other:	N/A
<b>12. Ecological Information</b>			
Ecological Information:	Not a hazard to the environment. Material will not decompose rapidly in the environment.		
Chemical Fate Information:	N/A		
<b>13. Disposal Considerations</b>			
Waste Disposal Procedures:	Wipe up and collect for proper disposal methods. Follow all applicable local, state and federal disposal regulations. Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of in a domestic waste incinerator.		
Waste Disposal Codes (All that apply):	080410 for cured material 1150102 for empty pail and cartridges		
<b>14. Transportation Information</b>			
Shipping and Labeling Information: Not regulated for shipping purpose.			
<b>15. Regulatory Information</b>			
U.S. Federal Regulation: None Known			
State Regulation: None Known			
International Regulations: None Known			
<b>16. Additional Information</b>			

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.