

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

AC•Tech 2170 FC, Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Chemical product for construction and industry

1.3 Details of the supplier of the safety data sheet

Manufacturer:	Allied Construction Technologies, Inc. 3302 Croft Street Norfolk, VA 23513	Phone:(757)-855-5100 Email: Team@actechperforms.com
Emergency Phone:	US & Canada Infotrac: (800) 535-5053 (Contract #104212)	International Infotrac: 1-352-323-3500

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: Xi - Irritant, N - Dangerous for the environment

R phrases:

Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Hazardous components which must be listed on the label

epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-(epichlorhydrin)

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning
Pictograms: GHS07-GHS09



Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special labeling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

NFPA and HMIS Rating

NFPA Rating	Health: 2	Fire: 1	Reactivity: 0
HMIS Rating	Health: 2	Flammability: 1	Physical Hazard: 0

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

Hazardous Components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
500-033-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	50 - < 75 %
25068-38-6	Xi - Irritant, N - Dangerous for the environment R36/38-43-51-53 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
01-2119456619-26		
500-006-8	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)	10 - < 25 %
9003-36-5	Xi - Irritant, N - Dangerous for the environment R38-43-51-53 Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411	
01-2119454392-40		
240-260-4	1,6-bis(2,3-epoxypropoxy)hexane	5 - < 10 %
16096-31-4	Xi - Irritant R36/38-43-52-53 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412	
01-2119463471-41		
271-846-8	oxirane, mono[[C12-14-alkyloxy)methyl] derivs.	5 - < 10 %
68609-97-2	Xi - Irritant R38-43 Skin Irrit. 2, Skin Sens. 1; H315 H317	
01-2119485289-22		

For Full text R-,H- and EUH-phrases: see section 16.

SECTION 4: First Aid Measures**4.1 Description of first aid measures****General Information**

Change contaminated clothing. If you feel unwell due to accidental exposure, seek medical attention immediately.
(show MSDS if possible)

After inhalation

Move to fresh air and keep warm and rest.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious) . Sip water. Do not induce vomiting.
Immediately get medical attention.

SECTION 5: Firefighting Measures**5.1 Extinguishing media****Suitable extinguishing media**

- alcohol resistant foam.
- Water spray.
- Carbon dioxide (CO₂).
- dry extinguishing powder.

Unsuitable extinguishing media

- High power water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

- Carbon monoxide
- Carbon dioxide
- Nitrogen oxides (NO_x).

5.3 Advise for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. See protective measures under point 7 and 8. Provide adequate ventilation.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Cover drains. Clean contaminated objects and areas thoroughly observing environmental regulations. In case of gas being released or leakage into waters, ground or the drainage

system, the appropriate authorities must be informed.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Remove mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

Personal protection equipment refer to chapter 8.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Wear protective clothing. Close container tightly once it is no longer in use. Store away from direct sunlight, heat, spark, fire and other sources of ignition. Empty containers may still contain mixed or unmixed materials, which may be hazardous.

7.2 Storage

Keep in closed, original container. Store container in a cool, dry and ventilated area. Protect from direct sunlight and heat or heating elements. Do not store near spark, fire and other sources of ignition. Keep away from food, beverages and animal feed. Keep away from oxidizing agents. Protect from frost, humidity and heat.

SECTION 8: Exposure Controls/Personal Protection

8.1 Exposure Limits & Controls

OSHA

No limit values from OSHA. Use in a well-ventilated area.

Skin Protection

Use protective clothing to prevent skin contact. Wear nitrile or butyl rubber gloves. Ensure the chemical resistance of the gloves is suitable for use with these chemicals.

Eye Protection

Wear tight-fitting, protective goggles or face shield.

Respiratory Protection

When applying material in confined spaces, use appropriate NIOSH mask. When applying in vented spaces, respiratory protection is not required unless there are sensitivities to chemicals listed in MSDS.

Body Protection

For protection against direct skin contact, ensure protective clothing covers all exposed skin areas.

General Protection & Hygiene

Avoid contact with skin, eyes and clothing. In case of skin sensitivity, protect skin with protective skin cream. Remove contaminated clothing immediately. Do not eat, drink or smoke in or around application area. Wash hands before taking breaks and at the end of application.

SECTION 9: Physical and Chemical Properties

Physical State: Liquid

Color: Transparent

Odor: Low
PH-Value: No Data Available

Changes in physical state

Melting point No Data Available
Initial Boiling point and boiling range No Data Available
Sublimation point No Data Available
Softening point No Data Available
Pour Point No Data Available
Flash point: > 203 °F

Flammability

Solid No Data Available
Gas No Data Available
Lower explosion limits No Data Available
Upper explosion limits No Data Available
Ignition temperature No Data Available

Auto-ignition temperature

Solid No Data Available
Gas No Data Available
Decompression Temperature No Data Available
Vapor Pressure No Data Available
Density at 73 °F ~1.1 g/cm³
Partition coefficient: No Data Available
Viscosity/Dynamic (at 73 °F) ~850 CPS
Viscosity/Kinematic No Data Available
Flow Time No Data Available
Vapor Density No Data Available
Evaporation Rate No Data Available

SECTION 10: Stability and Reactivity**10.1 Reactivity**

No dangerous reactions by handling and stock-keeping according to the guidelines.

10.2 Chemical Stability

No decomposition if used according to guidelines.

10.3 Possibility of hazardous reactions

Reacts with:
-Amines
-Acid
-Alkalis

10.4 Conditions to avoid

No Data Available

10.5 Incompatible materials

No Data Available

10.6 Hazardous decomposition products

Gas/Vapors, irritant

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)				
	oral	LD50	15000 mg/kg	Rat	
	dermal	LD50	23000 mg/kg	Rabbit	
9003-36-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)				
	oral	LD50	>10000 mg/kg	Rat	
	dermal	LD50	>2000 mg/kg	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitizing effects

May cause an allergic skin reaction. (epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)), (epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)), (oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

May cause heavy allergic reactions with chronic effects after a sensitization and a later exposure by very low amounts.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1 Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)					
	Acute fish toxicity	LC50	2,0 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	11 mg/l	72 h		
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	daphnia	
9003-36-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)					
	Acute fish toxicity	LC50	2,54 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	1,8 mg/l	72 h		
	Acute crustacea toxicity	EC50	2,55 mg/l	48 h	daphnia	

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	3,242
9003-36-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)	3,6

12.4 Mobility in soil

No information available.

Further Information

Toxic to aquatic life with long lasting effects. Do not empty into drains or aquatic environments.

SECTION 13: Disposal Considerations

13.1 Product Disposal

Containers that have been completely emptied may be recycled per federal, state and local regulations and disposal guidelines. Containers that have not been emptied or contain product residue may still contain hazardous materials and should be disposed of in accordance with federal, state and local regulations regarding hazardous material disposal.

SECTION 14: Transportation Information

Land transport (ADR/RID)

- 14.1. UN number: UN 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- Hazard label: 9
- Classification code: M6
- Special Provisions: 274 335 601
- Limited quantity: 5 L
- Transport category: 3
- Hazard No: 90
- Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

- 14.1. UN number: UN 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- Hazard label: 9
- Classification code: M6
- Special Provisions: 274 335 601
- Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Marine pollutant: yes
Special Provisions: 274, 335
Limited quantity: 5 L
EmS: F-A, S-F

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Special Provisions: A97 A158
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity -Cargo: 450 L

Other applicable information (air transport)

E1

: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: epoxy resin

SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

EU-Limit (2004/42) of VOC-content of the product ready for use (cat. All / j Typ sb): 500 g/l (2010).
This product (Part A+ B) contains <500 g/l (2010).

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other Information**Relevant R-phrases (Number and full text)**

36/38	Irritating to eyes and skin.
38	Irritating to skin.
43	May cause sensitization by skin contact.
51	Toxic to aquatic organisms.
52	Harmful to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Further Information

To the best of our knowledge, the information contained in this MSDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this MSDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.