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

### 1.1 Product Identifier

AC•Tech 2170 FC, Part B

### 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.<br>3302 Croft Street<br>Norfolk, VA 23513 | Phone:(757)-855-5100<br>Email: Team@actechperforms.com |
| Emergency Phone: | US & Canada<br>Infotrac: (800) 535-5053<br>(Contract #104212) | International<br>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: C - Corrosive, Xn - Harmful, Xi - Irritant

R phrases:

Possible risk of impaired fertility.

Harmful if swallowed.

Causes burns.

Irritating to respiratory system.

May cause sensitization by skin contact.

Harmful 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 Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Harmful to aquatic life with long lasting effects.

## 2.2 Label Elements

**Hazardous components which must be listed on the label**

m-phenylenebis(methylamine)

4-tert-butylphenol

trimethylhexane-1,6-diamine

**Signal word:** Danger

**Pictograms:** GHS05-GHS07-GHS08



**Hazard statements**

| | |
|---|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P310 | Immediately call a POISON CENTER/doctor. |

**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 | | |
| 216-032-5 | m-phenylenebis(methylamine) | 10 - < 25 % |
| 1477-55-0 | C - Corrosive, Xn - Harmful R20/22-34-43-52-53 | |
| | Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H302 H332 H314 H317 H412 | |
| 01-2119480150-50 | | |
| 202-679-0 | 4-tert-butylphenol | 10 - < 25 % |
| 98-54-4 | Repr. Cat. 3, Xi - Irritant, N - Dangerous for the environment R62-37/38-41-51-53 | |
| | Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 2; H361 H315 H318 H335 H411 | |
| 247-134-8 | trimethylhexane-1,6-diamine | 5 - < 10 % |
| 25620-58-0 | C - Corrosive, Xn - Harmful R22-35-43-52-53 | |
| | Acute Tox. 4, Skin Corr. 1A, Skin Sens. 1, Aquatic Chronic 3; H302 H314 H317 H412 | |

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 (NOx).

**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 an 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:** | Light Yellow |
| **Odor:** | Low |
| **PH-Value:** | 12 |

**Changes in physical state**

| | |
|---|---|
| Melting point | No Data Available |
| Initial Boiling point and boiling range | > 392 °F |
| Sublimation point | No Data Available |
| Softening point | No Data Available |
| Pour Point | No Data Available |
| Flash point: | > 212 °F |

**Flammability**

| | |
|---|---|
| Solid | No Data Available |
| Gas | No Data Available |
| Lower explosion limits | No Data Available |
| Upper explosion limits | No Data Available |
| Ignition temperature | > 662 °F |

**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 | ~1.0 g/cm$^3$ |
| Partition coefficient: | No Data Available |
| Viscosity/Dynamic (at 73 °F) | ~700 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

No Data Available

### 10.4 Conditions to avoid

No Data Available

### 10.5 Incompatible materials

No Data Available

### 10.6 Hazardous decomposition products

No Data Available

## 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 |
| 1477-55-0 | m-phenylenebis(methylamine) | | | | |
| | oral | LD50 | 930 mg/kg | Rat | |
| | dermal | LD50 | 3100 mg/kg | Rabbit | |
| | inhalative vapour | ATE | 11 mg/l | | |
| | inhalative aerosol | ATE | 1,5 mg/l | | |
| 98-54-4 | 4-tert-butylphenol | | | | |
| | oral | LD50 | 4000 mg/kg | Rat | |
| | dermal | LD50 | 2318 mg/kg | Rabbit | |
| 25620-58-0 | trimethylhexane-1,6-diamine | | | | |
| | oral | LD50 | 910 mg/kg | Rat | |

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitizing effects**

May cause an allergic skin reaction. (m-phenylenebis(methylamine)), (trimethylhexane-1,6-diamine)

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

**STOT-single exposure**

May cause respiratory irritation. (4-tert-butylphenol)

**Severe effects after repeated or prolonged exposure**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of damaging fertility. Suspected of damaging the unborn child.

**Aspiration hazard**

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

**Observations relevant to classification**

Sensitization/Irritant effect on the respiratory tract: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## SECTION 12: Ecological Information

### 12.1 Toxicity

| CAS No | Chemical name | | | | | |
|---|---|---|---|---|---|---|
| | Aquatic toxicity | Method | Dose | [h] \| [d] | Species | Source |
| 1477-55-0 | m-phenylenebis(methylamine) | | | | | |
| | Acute fish toxicity | LC50 | > 100 mg/l | 96 h | Brachydanio rerio (zebrafish) | |
| | Acute crustacea toxicity | EC50 | 15,2 mg/l | 48 h | Daphnia magna | |
| 98-54-4 | 4-tert-butylphenol | | | | | |
| | Acute fish toxicity | LC50 | 5,1 mg/l | 96 h | Oryzias latipes | |
| | Acute crustacea toxicity | EC50 | 3,4 mg/l | 48 h | Daphnia magna | |

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

**Further Information**

Harmful to aquatic life with long lasting effects. Do not empty into drains or the aquatic environment.

## 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 no 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 2735

**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** II

Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

**Other applicable information (land transport)**

E2

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 2735
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
**14.3. Transport hazard class(es):** 8
**14.4. Packing group:** II
Hazard label: 8
Classification code: C7
Special Provisions: 274
Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 2735
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
**14.3. Transport hazard class(es)**: 8
**14.4. Packing group:** II
Hazard label: 8
Marine pollutant: no
Special Provisions: 274
Limited quantity: 1 L
EmS: F-A, S-B

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)**

**14.1. UN number:** UN 2735
**14.2. UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
**14.3. Transport hazard class(es):** 8
**14.4. Packing group:** II
Hazard label: 8
Special Provisions: A3 A803
Limited quantity Passenger: 0.5 L
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L

IATA-packing instructions - Cargo: 855

IATA-max. quantity -Cargo: 30 L

**Other applicable information (air transport)**

E2

: Y840

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

## SECTION 15: Regulatory Information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

## SECTION 16: Other Information

**Relevant R-phrases (Number and full text)**

| | |
|---|---|
| 20/22 | Harmful by inhalation and if swallowed. |
| 22 | Harmful if swallowed. |
| 34 | Causes burns. |
| 35 | Causes severe burns. |
| 37/38 | Irritating to respiratory system and skin. |
| 41 | Risk of serious damage to eyes. |
| 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. |
| 62 | Possible risk of impaired fertility. |

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

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**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.*