

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. 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: 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 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 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.