SAFETY DATA SHEET

1. Identification

Product identifier TH1710 Epoxy Thinner
Other means of identification Not available.
Recommended use Not available.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Company Name Ergon Armor
Address 1655 Harbor Avenue
Memphis, TN 38113
USA
Telephone 1-800-222-7122
Website www.ergonarmor.com
E-mail sds@ergon.com
Emergency 24-hour phone number CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887
Information on operation hours 8:00 a.m. to 5:00 p.m.

2. Hazard(s) identification

Physical hazards
- Flammable liquids Category 3

Health hazards
- Acute toxicity, oral Category 4
- Acute toxicity, dermal Category 4
- Acute toxicity, inhalation Category 4
- Specific target organ toxicity, single exposure Category 3 narcotic effects

Environmental hazards Not classified.
OSHA defined hazards Not classified.
Label elements

Signal word Warning
Hazard statement Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Prevention
- Keep away from flames and hot surfaces-No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Avoid breathing mist/vapors/spray. Wear protective gloves and eye/face protection.

Response
- In case of fire: Use appropriate media for extinction. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage
- Store in a well-ventilated place. Store locked up.

Disposal
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Material name: TH1710 Epoxy Thinner
5436 Version #: 01 Issue date: 06-04-2015
### Chemical name and synonyms

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-BUTANOL</td>
<td></td>
<td>71-36-3</td>
<td>35 - 65</td>
</tr>
<tr>
<td>XYLENE</td>
<td></td>
<td>1330-20-7</td>
<td>35 - 65</td>
</tr>
<tr>
<td>HEPTAN-2-ONE</td>
<td></td>
<td>110-43-0</td>
<td>10 - 25</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

#### Inhalation
Move to fresh air. For breathing difficulties, oxygen may be necessary. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation. Call a physician if symptoms develop or persist.

#### Skin contact
Take off immediately all contaminated clothing. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.

#### Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops and persists.

#### Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### Most important symptoms/effects, acute and delayed
Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

#### Indication of immediate medical attention and special treatment needed
Oxygen, if needed. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Treat symptomatically.

#### General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off contaminated clothing and shoes immediately. If you feel unwell, seek medical advice (show the label where possible). In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

#### Suitable extinguishing media

#### Unsuitable extinguishing media
Water. Do not use a solid water stream as it may scatter and spread fire. Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical
Fire may produce irritating, corrosive and/or toxic gases.

#### Special protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Firefighters should wear full protective clothing including self contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection. Wear suitable protective equipment.

#### Fire-fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

#### Specific methods
In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Use water spray to cool unopened containers.
6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Ensure adequate ventilation.

**Methods and materials for containment and cleaning up**

Extinguish all flames in the vicinity.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

**Precautions for safe handling**

Vapors may form explosive mixtures with air. May be ignited by open flame. Keep away from sources of ignition - No smoking. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Do not smoke. All equipment used when handling the product must be grounded. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Do not use in areas without adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure. When using do not eat or drink. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Use care in handling/storage.

**Conditions for safe storage, including any incompatibilities**

CAUTION The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep away from heat and sources of ignition. Keep at temperature not exceeding 50 °C. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Store in a closed container away from incompatible materials. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</strong></td>
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</tr>
<tr>
<td>1-BUTANOL (CAS 71-36-3)</td>
<td>PEL 300 mg/m³</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>HEPTAN-2-ONE (CAS 110-43-0)</td>
<td>PEL 465 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>PEL 100 ppm</td>
</tr>
<tr>
<td></td>
<td>435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td><strong>US. ACGIH Threshold Limit Values</strong></td>
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<tr>
<td>1-BUTANOL (CAS 71-36-3)</td>
<td>TWA 20 ppm</td>
</tr>
<tr>
<td>HEPTAN-2-ONE (CAS 110-43-0)</td>
<td>TWA 50 ppm</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>STEL 150 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA 100 ppm</td>
</tr>
<tr>
<td><strong>US. NIOSH: Pocket Guide to Chemical Hazards</strong></td>
<td></td>
</tr>
<tr>
<td>1-BUTANOL (CAS 71-36-3)</td>
<td>Ceiling 150 mg/m³</td>
</tr>
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<td></td>
<td>50 ppm</td>
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</table>
HEPTAN-2-ONE (CAS 110-43-0)

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<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>465 mg/m3</td>
</tr>
</tbody>
</table>

100 ppm

### Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>1.5 g/g</td>
<td>Methylhippuric acids</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

### Exposure guidelines

#### US - California OELs: Skin designation
1-BUTANOL (CAS 71-36-3) Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies
1-BUTANOL (CAS 71-36-3) Skin designation applies.

#### US - Tennessee OELs: Skin designation
1-BUTANOL (CAS 71-36-3) Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation
1-BUTANOL (CAS 71-36-3) Can be absorbed through the skin.

### Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas. Provide adequate general and local exhaust ventilation.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**
Do not get in eyes. Avoid contact with eyes. Chemical goggles are recommended. Face-shield. Eye wash fountain is recommended. Goggles/face shield are recommended.

**Hand protection**
Wear protective gloves. Wear appropriate chemical resistant gloves.

**Skin protection**

**Other**
Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear suitable protective clothing. Chemical resistant gloves. Wear protective gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Normal work clothing (long sleeved shirts and long pants) is recommended.

**Skin protection**
In the case of respirable dust and/or fumes, use self-contained breathing apparatus. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. No personal respiratory protective equipment normally required.

**Respiratory protection**

**Thermal hazards**
Not available.

**General hygiene considerations**
When using do not smoke. When using, do not eat, drink or smoke. Do not get in eyes. Avoid contact with eyes. Avoid contact with skin. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Wash hands after handling and before eating. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

**Appearance**
Not available.

**Physical state**
Liquid.

**Form**
Liquid.

**Color**
Pale

**Odor**
Mild solvent odor

**Odor threshold**
Not available.

**pH**
Not available.

**Melting point/freezing point**
Not available.

**Initial boiling point and boiling range**
Not available.

**Flash point**
84.0 °F (28.9 °C) estimated

**Evaporation rate**
Not available.

**Flammability (solid, gas)**
Not available.

**Upper/lower flammability or explosive limits**

**Explosive limit - lower (%)**
Not available.
Explosive limit - upper (\%)
Not available.

Vapor pressure 8.86 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)
Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information
Density 0.83 g/cm³ estimated

Flammability class Flammable IC estimated

VOC (Weight %) 7.2 lb/gal estimated

10. Stability and reactivity
Reactivity Not available.

Chemical stability Risk of explosion. Risk of ignition. Material is stable under normal conditions.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point.


11. Toxicological information
Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Harmful by inhalation.

Skin contact Harmful in contact with skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact May be irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects
Acute toxicity Harmful if inhaled, absorbed through skin, or swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH1710 Epoxy Thinner (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>7489.5103 mg/kg estimated</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>9767.5 mg/l, 6 Hours estimated</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>20000 ppm, 4 Hours estimated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15875 mg/l, 4 Hours estimated</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>1902.7869 mg/kg estimated</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>1613.2449 mg/kg estimated</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>942.5 mg/kg estimated</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>9.363 mg/kg estimated</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>------------------------------------</td>
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</tr>
<tr>
<td><strong>1-BUTANOL (CAS 71-36-3)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Dermal</em></td>
<td>Rabbit</td>
<td>3400 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>8000 ppm, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>790 mg/kg</td>
</tr>
<tr>
<td><strong>Other</strong></td>
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<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse/Rat</td>
<td>377 mg/kg/310 mg/kg</td>
</tr>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HEPTAN-2-ONE (CAS 110-43-0)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Dermal</em></td>
<td>Rabbit</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse/Rat</td>
<td>730 mg/kg/1.67 g/kg</td>
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<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>800 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>XYLENE (CAS 1330-20-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Dermal</em></td>
<td>Rabbit</td>
<td>&gt; 43 g/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse/Rat</td>
<td>3907 mg/l/6 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse/Rat</td>
<td>1590 mg/kg/3523 - 8600 mg/kg</td>
</tr>
<tr>
<td><strong>Other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>3.8 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Not classified. Not available.

**Serious eye damage/eye irritation**
May be irritating to eyes. Not classified.

**Respiratory or skin sensitization**

<table>
<thead>
<tr>
<th>Respiratory sensitization</th>
<th>Not classified. Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin sensitization</td>
<td>Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Not classified. None known. Not available.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Not available. Not classified.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not available. Not classifiable as to carcinogenicity to humans. Not classified.</td>
</tr>
</tbody>
</table>

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| XYLENE (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |


Not listed.

**Reproductive toxicity**
Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Not classified.

**Specific target organ toxicity**
Narcotic effects.
Specific target organ toxicity - repeated exposure
Not classified. Not available.

Aspiration hazard
Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects. Not expected to be hazardous by WHMIS criteria.

Chronic effects
Not classified. Not available.

Further information
Symptoms may be delayed. This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity
Not relevant considering the small amounts used.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
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<tbody>
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<td>TH1710 Epoxy Thinner (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td></td>
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</tr>
<tr>
<td>1-BUTANOL (CAS 71-36-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
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<td>HEPTAN-2-ONE (CAS 110-43-0)</td>
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<td></td>
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<td>Aquatic</td>
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</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
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<tr>
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<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Ecotoxicity
Not relevant considering the small amounts used.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>TH1710 Epoxy Thinner (CAS Mixture)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-BUTANOL (CAS 71-36-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
<tr>
<td>HEPTAN-2-ONE (CAS 110-43-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
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<td>LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
Not available.

Partition coefficient n-octanol / water (log Kow)
1-BUTANOL                                    0.88
HEPTAN-2-ONE                                 1.98
XYLENE                                       3.12 - 3.2

Mobility in soil
Not available.

Other adverse effects
Not available.

13. Disposal considerations

Disposal instructions
If discarded, this product is considered a RCRA ignitable waste, D001. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code
D001: Waste Flammable material with a flash point <140 F

US RCRA Hazardous Waste U List: Reference

1-BUTANOL (CAS 71-36-3) U031
XYLENE (CAS 1330-20-7) U239

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT
UN number UN1263
UN proper shipping name Paint Related Material
Transport hazard class(es)
Class 3
Subsidiary risk -
Label(s) 3
Packing group III

Material name: TH1710 Epoxy Thinner  
SDS US 5436 Version #: 01 Issue date: 06-04-2015

7 / 10
Read safety instructions, SDS and emergency procedures before handling.

Special precautions for user

Special provisions B1, B52, IB3, T2, TP1

Packaging exceptions 150

Packaging non bulk 173

Packaging bulk 242

IATA

UN number UN1263

UN proper shipping name Paint Related Material

Transport hazard class(es)

Class 3

Subsidiary risk -

Packing group III

Environmental hazards No.

ERG Code 3L

Special precautions for user Not available.

Other information

Passenger and cargo aircraft Allowed.

Cargo aircraft only Allowed.

IMDG

UN number UN1263

UN proper shipping name Paint Related Material

Transport hazard class(es)

Class 3

Subsidiary risk -

Packing group III

Environmental hazards

Marine pollutant No

EmS F-E, S-D

Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
1-BUTANOL (CAS 71-36-3) Listed.
XYLENE (CAS 1330-20-7) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312
Hazardous chemical
No

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-BUTANOL</td>
<td>71-36-3</td>
<td>35 - 65</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>35 - 65</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
XYLENE (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. Massachusetts RTK - Substance List
1-BUTANOL (CAS 71-36-3)
HEPTAN-2-ONE (CAS 110-43-0)
XYLENE (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act
1-BUTANOL (CAS 71-36-3) 500 LBS
XYLENE (CAS 1330-20-7) 500 LBS

US. Pennsylvania RTK - Hazardous Substances
1-BUTANOL (CAS 71-36-3)
HEPTAN-2-ONE (CAS 110-43-0)
XYLENE (CAS 1330-20-7)

US. Rhode Island RTK
1-BUTANOL (CAS 71-36-3)
XYLENE (CAS 1330-20-7)

US. California Proposition 65
Not Listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Country(s) or region      Inventory name                                                      On inventory (yes/no)*
Philippines               Philippine Inventory of Chemicals and Chemical Substances               Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory        Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date               06-04-2015
Version #                01

Further information      HMIS® is a registered trade and service mark of the NPCA.

References               ACGIH
                           EPA: AQUIRE database
                           NLM: Hazardous Substances Data Base
                           US. IARC Monographs on Occupational Exposures to Chemical Agents
                           HSDB® - Hazardous Substances Data Bank
                           IARC Monographs. Overall Evaluation of Carcinogenicity
                           National Toxicology Program (NTP) Report on Carcinogens
                           ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

Disclaimer               The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Information     Product and Company Identification: Product and Company Identification
                          Composition / Information on Ingredients: Ingredients
                          Physical & Chemical Properties: Multiple Properties
                          Transport Information: Proper Shipping Name/Packing Group
                          Regulatory Information: United States
                          GHS: Classification