1. Product and Company Identification

Material name: C6 Epoxy Adhesive
Version #: 01
Revision date: 08-19-2013
CAS #: Mixture
Product Code: C6
Product use: Concrete anchoring adhesive.

Manufacturer/Supplier: ITW Red Head
2171 Executive Drive, Suite 100
Addison, IL 60101 US
Telephone Number: (630) 350-0370
Contact Person: Andrew Rourke

Emergency CHEMTREC: (800) 424-9300

2. Hazards Identification

Physical state: Liquid.
Appearance: Paste.
Emergency overview: DANGER!
Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful if absorbed through skin or swallowed. May cause sensitization by skin contact. Prolonged exposure may cause chronic effects.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects:
- Routes of exposure:
  - Inhalation: Causes severe respiratory tract irritation. Vapors irritate the respiratory system, and may cause coughing and difficulties in breathing.
  - Ingestion: Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
- Chronic effects: Overexposure can cause lung damage - pulmonary toxin.
- Potential environmental effects: The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A Diglycidyl Ether Resin (Part A)</td>
<td>25068-38-6</td>
<td>60 - 80</td>
</tr>
<tr>
<td>Mercaptan/Amine Polymer Blend (Part B)</td>
<td>Trade Secret</td>
<td></td>
</tr>
<tr>
<td>2,4,6-Tris(dimethylaminomethyl) Phenol (Part B)</td>
<td>90-72-2</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Isopropanol (Part B)</td>
<td>67-63-0</td>
<td>Trade Secret</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures:
- Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin contact
Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

Ingestion
Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

Notes to physician
Keep victim under observation. In case of shortness of breath, give oxygen. Symptoms may be delayed.

General advice
Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties
Not flammable by OSHA criteria. Material may burn but not ignite readily.

Extinguishing media

Protection of firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

Special protective equipment for fire-fighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Specific methods
In the event of fire and/or explosion do not breathe fumes.

Hazardous combustion products

6. Accidental Release Measures

Personal precautions
Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment
Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect spillage. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up
Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Wear personal protective equipment. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Storage
Keep container tightly closed. For maximum shelf life, store between 4.4°C (40°F) to 26.7°C (80°F). Do not store above 43.3°C (110°F). Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>ACGIH Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

C6 Epoxy Adhesive
Version #: 01    Revision date: 08-19-2013    Print date: 08-19-2013
<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (Part B)</td>
<td>PEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>980 mg/m³</td>
</tr>
<tr>
<td>Canada - Alberta</td>
<td>STEL</td>
<td>984 mg/m³</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>492 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>Canada - British Columbia</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Canada - Ontario</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Canada - Quebec</td>
<td>STEL</td>
<td>1230 mg/m³</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>983 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td>Mexico</td>
<td>STEL</td>
<td>1225 mg/m³</td>
</tr>
<tr>
<td>Components</td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>980 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

Engineering controls
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection
Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection
Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

General hygiene considerations
Avoid contact with eyes. Avoid contact with skin. Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance
Paste.

Color
Gray/white.

Odor
Characteristic.

Odor threshold
Not available.

Physical state
Liquid.

Form
Liquid. Paste.

pH
Not available.

Melting point
Not available.

Freezing point
Not available.

Boiling point
> 500 °F (> 260 °C) Part A

Flash point
> 200 °F (> 93.3 °C)

Evaporation rate
Not available.

Flammability
Not available.
Flammability limits in air, upper, % by volume
Not available.
Flammability limits in air, lower, % by volume
Not available.
Vapor pressure Not available.
Vapor density Not available.
Specific gravity Not available.
Solubility (water) None.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Density
1.3 g/cm³ Part A
1.7 g/cm³ Part B

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.
Conditions to avoid Elevated temperatures.
Incompatible materials
Strong oxidizing agents. Strong acids.
Possibility of hazardous reactions
Will not occur by itself. More than 1 pound of the Part B material added to epoxy resins will cause irreversible polymerization with considerable heat build-up.

11. Toxicological Information

Toxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (Part B) (67-63-0)</td>
<td>Acute Dermal LD50 Rabbit: 5030 - 7900 mg/kg&lt;br&gt;Acute Oral LD50 Rat: 4700 - 5800 mg/kg</td>
</tr>
<tr>
<td>Mercaptan/Amine Polymer Blend (Part B) (Trade Secret)</td>
<td>Acute Dermal LD50 Rabbit: &gt; 10000 mg/kg&lt;br&gt;Acute Oral LD50 Rat: &gt; 3000 mg/kg</td>
</tr>
</tbody>
</table>

Local effects Causes skin and eye burns. Causes severe respiratory tract irritation. Harmful in contact with skin and if swallowed. May cause sensitization by skin contact.
Sensitization May cause an allergic skin reaction.
Chronic effects Overexposure can cause lung damage.
Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

- Isopropanol (Part B) (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Epidemiology This product is not reported to cause epidemiological effects in humans.
Mutagenicity This product is not expected to cause mutagenic or genotoxic effects.
Neurological effects Not available.
Reproductive effects Isopropyl alcohol has demonstrated animal effects of reproductive toxicity.
Teratogenicity Isopropyl alcohol has demonstrated animal effects of teratogenicity.
Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Components Test Results
Isopropanol (Part B) (67-63-0) LC50 Bluegill (Lepomis macrochirus): > 1400 mg/l 96 hours

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability Not available.
Bioaccumulation / Accumulation
No data available.

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

Mobility in environmental media
No data available.

13. Disposal Considerations
Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information
Product Specific Note:
This product meets the limited quantities exception requirements for the below listed transportation agencies. Under DOT and TDG regulations, this product may be reclassified as a Consumer Commodity (ORM-D). Please see the specific regulations for the shipping and packaging requirements.

DOT
Basic shipping requirements:
Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None
Labels required None
Additional information:
Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IATA
Basic shipping requirements:
UN number 2735
Proper shipping name Amines, liquid, corrosive, n.o.s. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class 8
Packing group III

IMDG
Basic shipping requirements:
UN number 2735
Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S. (2,4,6-Tris(dimethylaminomethyl) Phenol (Part B))
Hazard class 8
Packing group III
EmS No. F-A, S-B

TDG
Basic shipping requirements:
Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None
Labels required None
Additional information:
Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None
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.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration
Isopropanol (Part B) (CAS 67-63-0) 1.0 %
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance
Isopropanol (Part B) (CAS 67-63-0) Listed.

CERCLA (Superfund) reportable quantity (lbs)
Isopropanol (Part B) 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No
Section 311 hazardous chemical
No

Drug Enforcement Agency (DEA)
Not controlled

Canadian regulations
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status
Controlled

WHMIS classification
D2B - Other Toxic Effects-TOXIC
E - Corrosive

WHMIS labeling

Inventory status

<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>No</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>No</td>
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<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
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<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
</tbody>
</table>
Country(s) or region    | Inventory name                          | On inventory (yes/no)
---                     | ---                                     | ---
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)

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director’s): Listed substance
- Isopropanol (Part B) (CAS 67-63-0) Listed.

US - Massachusetts RTK - Substance: Listed substance
- Isopropanol (Part B) (CAS 67-63-0) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold
- Isopropanol (Part B) (CAS 67-63-0) 500 LBS Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
- Isopropanol (Part B) (CAS 67-63-0) Listed.

16. Other Information

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

HMIS® ratings
- Health: 2*
- Flammability: 1
- Physical hazard: 1

NFPA ratings
- Health: 2
- Flammability: 1
- Instability: 0

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.

Issue date
08-19-2013