1 Identification

· Product identifier
· Trade name: ER-2100 (PART-B, HARDENER) sold by Progressive Epoxy as: Corro Coat FC 2100 A (part B)

· Article number: ER2100(H)
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Eastern Resins Corporation
  820 Hopkins Hill Road
  West Greenwich, RI 02817
· Information department: Product safety department
· Emergency telephone number:
  During normal opening times: +1 (401) 769-6700
  Chemtel (US transportation) 1-800-255-3924
  International (call collect) +01-813-248-0585

2 Hazard(s) identification

· Classification of the substance or mixture
  GHS08 Health hazard
  STOT RE 2  H373  May cause damage to organs through prolonged or repeated exposure.
  GHS05 Corrosion
  Eye Dam. 1  H318  Causes serious eye damage.
  GHS07
  Acute Tox. 4  H302  Harmful if swallowed.
  Skin Irrit. 2  H315  Causes skin irritation.
  Skin Sens. 1  H317  May cause an allergic skin reaction.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  Harmful
  Harmful by inhalation and if swallowed.

· Information concerning particular hazards for human and environment:
  The product has to be labeled due to the calculation procedure of international guidelines.
· Classification system:
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
Trade name: ER-2100 (PART-B, HARDENER)

· Label elements

· Labelling according to EU guidelines:
  Observe the general safety regulations when handling chemicals.
  The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:
  Harmful

· Hazard-determining components of labeling:
  Aromatic Alcohol-Proprietary

· Risk phrases:
  Harmful by inhalation and if swallowed.

· Safety phrases:
  Keep out of the reach of children.
  Keep container in a well-ventilated place.
  If swallowed, seek medical advice immediately and show this container or label.
  Dispose of this material and its container to hazardous or special waste collection point.

· Classification system:
  NFPA ratings (scale 0 - 4)
  Health = 1
  Fire = 1
  Reactivity = 0

  HMIS-ratings (scale 0 - 4)
  HEALTH Health = 1
  FIRE Fire = 1
  REACTIVITY Reactivity = 0

· Other hazards
  Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aromatic Alcohol-Proprietary</td>
<td>25-50%</td>
</tr>
<tr>
<td>1761-71-3 4,4'-methylenebis(cyclohexylamine)</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
4 First-aid measures

- Description of first aid measures
  - General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation:
    Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact:
    Generally the product does not irritate the skin.
  - After eye contact:
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Immediately call a doctor.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture No further relevant information available.
  - Advice for firefighters
    - Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    - Ensure good ventilation/exhaustion at the workplace.
    - Prevent formation of aerosols.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
Trade name: ER-2100 (PART-B, HARDENER)

- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

| Components with limit values that require monitoring at the workplace: |
| Aromatic Alcohol-Proprietary |
| WEEL | Long-term value: 10 ppm |

- Additional information: The lists that were valid during the creation were used as basis.

| Exposure controls |
| Personal protective equipment: |
| General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. |
| Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. |
| Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. |
| Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| Eye protection: Goggles recommended during refilling. |

9 Physical and chemical properties

- Information on basic physical and chemical properties

| General Information |
| Appearance: |
| Form: Liquid |
| Color: Amber colored |
| Odor: Amine-like |
| Odour threshold: Not determined. |
| pH-value: Not determined. |

| Change in condition |
| Melting point/Melting range: Undetermined. |
| Boiling point/Boiling range: Undetermined. |
| Flash point: 101 °C (214 °F) |
### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    | Aromatic Alcohol-Proprietary | Oral LD50 | 1230 mg/kg (rat) | Dermal LD50 | 2000 mg/kg (rabbit) |
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritating effect.
### 40.1.3 Sensitization

- **Sensitization:** No sensitizing effects known.

### Additional toxicological information

The product shows the following dangers according to internally approved calculation methods for preparations:
- **Harmful**

### Carcinogenic categories

- **IARC (International Agency for Research on Cancer)**
  - None of the ingredients is listed.

- **NTP (National Toxicology Program)**
  - None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**
  - None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability**
  - No further relevant information available.

- **Behavior in environmental systems:**
  - **Bioaccumulative potential**
    - No further relevant information available.
  - **Mobility in soil**
    - No further relevant information available.

- **Additional ecological information:**
  - **General notes:** Not known to be hazardous to water.

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

- **Other adverse effects**
  - No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**

  - **Recommendation:**
    - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings**

  - **Recommendation**: Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
  - **DOT, ADN, IMDG, IATA**
    - not regulated

- **UN proper shipping name**
  - **DOT, ADN, IMDG, IATA**
    - not regulated

- **Transport hazard class(es)**
  - **DOT, ADN, IMDG, IATA**
    - **Class**
      - not regulated

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Trade name: ER-2100 (PART-B, HARDENER)

- Packing group
  - DOT, IMDG, IATA: not regulated
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- UN "Model Regulation": -

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    - Section 313 (Specific toxic chemical listings):
      None of the ingredients is listed.
    - TSCA (Toxic Substances Control Act):
      All ingredients are listed.
    - Proposition 65
      - Chemicals known to cause cancer:
        None of the ingredients is listed.
      - Chemicals known to cause reproductive toxicity for females:
        None of the ingredients is listed.
      - Chemicals known to cause reproductive toxicity for males:
        None of the ingredients is listed.
      - Chemicals known to cause developmental toxicity:
        None of the ingredients is listed.
- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.
- Product related hazard informations:
  - Observe the general safety regulations when handling chemicals.
  - The product has been classified and marked in accordance with directives on hazardous materials.
### Trade name: ER-2100 (PART-B, HARDENER)

- **Hazard symbols:**
  - ![](image)

- **Hazard-determining components of labeling:**
  - Aromatic Alcohol-Proprietary

- **Risk phrases:**
  - Harmful by inhalation and if swallowed.

- **Safety phrases:**
  - Keep out of the reach of children.
  - Keep container in a well-ventilated place.
  - If swallowed, seek medical advice immediately and show this container or label.
  - Dispose of this material and its container to hazardous or special waste collection point.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** Mr. David Viola
- **Date of preparation / last revision** 11/29/2015 / -
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
  - Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2