1 Product and Company Identification

- **Product identifier**
  
  - **Trade name**: EMXEA Activator
  - **Article number**: EMXEA Activator

- **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.

- **Details of the supplier of the safety data sheet**
  
  - **Manufacturer/Supplier**: EpoxyMaster
    755 W. Big Beaver Rd., Suite 2020
    Troy, MI 48084-4726
    (888) 376-9954
    (248) 373-0000

- **Emergency telephone number**:

2 Hazard(s) identification

- **Classification of the substance or mixture**

  - **GHS09 Environment**
  
    
    - **H411** Toxic to aquatic life with long lasting effects.

  - **GHS07**
  
    - **H315** Causes skin irritation.
    - **H319** Causes serious eye irritation.
    - **H317** May cause an allergic skin reaction.

- **Label elements**

  - **GHS label elements**
    The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**

  - **GHS07**
  
  - **GHS09**

- **Signal word** Warning

- **Hazard-determining components of labeling**:
  hexamethylene diacrylate
  Trade Secret

- **Hazard statements**
  
  - **H315** Causes skin irritation.
  - **H319** Causes serious eye irritation.
  - **H317** May cause an allergic skin reaction.
  - **H411** Toxic to aquatic life with long lasting effects.

- **Precautionary statements**
  Precautionary statements

(Contd. on page 2)
Trade name: EMXEA Activator

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container in accordance with local/regiona/national/international regulations.

- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 1
  - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 1
  - 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>Component</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Resin</td>
<td>H315; H319; H317</td>
<td>25-50%</td>
</tr>
<tr>
<td>Epoxy Resin</td>
<td>H411; H315; H319; H317; H401</td>
<td>25-50%</td>
</tr>
<tr>
<td>68611-44-9 Silane, dichlorodimethyl-</td>
<td>reaction product with silica H335</td>
<td>2.5%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
  - Supply fresh air and to be sure call for a doctor.
  - In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
  - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Give large amounts of water. If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** 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**: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**: Not required.
- **Environmental precautions**: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up**: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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

- **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**: No special requirements.
  - **Information about storage in one common storage facility**: Not required.
  - **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**:
    - **Acrylic Compound**
      - WEEL: Long-term value: 1 mg/m³
      - DSEN: 
    - **Silane, dichlorodimethyl-, reaction product with silica**
      - ACGIH: Short-term value: 3 mg/m³
      - Long-term value: 10 mg/m³
      - OSHA PEL: Short-term value: 6 mg/m³

(Contd. on page 4)
Trade name: EMXEA Activator

- **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.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.

- **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:**

  - **Protective gloves**
    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:**

  - **Tightly sealed goggles**

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Liquid
    - **Color:** Clear
    - **Odor:** Slight
    - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** 107 °C (225 °F)
  - **Flash point:** 111 °C (232 °F)
Trade name: EMXEA Activator

- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 235 °C (455 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure:** Not determined.
- **Density:** Not determined.
- **Relative density**
- **Vapour density**
- **Evaporation rate**
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 0.0 %
  - Solids content: 1.0 %
- **Other information**

### 10 Stability and reactivity

- **Reactivity**
  - **Chemical stability** Product is stable under normal conditions.
  - **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:**

<table>
<thead>
<tr>
<th>Trade Secret</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>&gt;5300 mg/kg (rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalative</td>
<td>1-10 mg/l (daphnia)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
37.1.0
· Primary irritant effect:
  · on the skin: Irritant to skin and mucous membranes.
  · on the eye: Irritating effect.
  · Sensitization: Sensitization possible through skin contact.
  · Additional toxicological information:
    The product shows the following dangers according to internally approved calculation methods for preparations:
    Irritant

Table of Carcinogenic categories

<table>
<thead>
<tr>
<th>Carcinogenic categories</th>
<th>IARC (International Agency for Research on Cancer)</th>
<th>NTP (National Toxicology Program)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None of the ingredients is listed.</td>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

12 Ecological Information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Aquatic toxicity:</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Trade Secret</td>
<td>EC50 1–10 mg/kg (daphnia)</td>
</tr>
</tbody>
</table>

| Persistence and degradability | No further relevant information available. |
| Bioaccumulative potential     | No further relevant information available. |
| Mobility in soil              | No further relevant information available. |
| Ecotoxic effects              | Moonlight for fish |
| Additional ecological information: | |
| General notes: | Water hazard class 2 (Self-assessment): hazardous for water |
|                  | Do not allow product to reach ground water, water course or sewage system. |
|                  | Danger to drinking water if even small quantities leak into the ground. |
|                  | Also poisonous for fish and plankton in water bodies. |
|                  | Toxic for aquatic organisms |
| Results of PBT and vPvB assessment | |
| PBT                   | Not applicable. |
| vPvB                  | Not applicable. |
| Other adverse effects | No further relevant information available. |

13 Disposal considerations

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Recommendation:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Must not be disposed of together with household garbage. Do not allow product to reach sewage system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Uncleaned packagings:</th>
<th>Recommendation:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Disposal must be made according to official regulations.</td>
</tr>
</tbody>
</table>

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Non-Regulated Material</td>
</tr>
</tbody>
</table>
## Trade name: EMXEA Activator

<table>
<thead>
<tr>
<th>ADR, IATA</th>
<th>UN3082</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>UN3082</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>None</td>
</tr>
<tr>
<td>DOT</td>
<td>Non-Regulated Material</td>
</tr>
<tr>
<td>ADR</td>
<td>UN3082 Environmentally hazardous substances, liquid, n.o.s. (Trade Secret)</td>
</tr>
<tr>
<td>IMDG</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trade Secret), MARINE POLLUTANT</td>
</tr>
<tr>
<td>IATA</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trade Secret)</td>
</tr>
</tbody>
</table>

### Transport hazard class(es)

- **DOT**
  - **Class**: Non-Regulated Material

### IMDG, IATA

<table>
<thead>
<tr>
<th>ADR</th>
</tr>
</thead>
</table>

- **Class**: 9 (M6) Miscellaneous dangerous substances and articles
- **Label**: 9

### IMDG, IATA

<table>
<thead>
<tr>
<th>IMDG</th>
</tr>
</thead>
</table>

- **Class**: 9 Miscellaneous dangerous substances and articles.
- **Label**: 9
- **Packing group**: Non-Regulated Material
- **DOT**: III
- **ADR, IMDG, IATA**: Non-Regulated Material
- **Environmental hazards**: Product contains environmentally hazardous substances: Trade Secret
- **Marine pollutant**: Yes
- **Symbol (fish and tree)**
- **Special marking (ADR)**: Symbol (fish and tree)
- **Special marking (IATA)**: Symbol (fish and tree)
- **Special precautions for user**: Warning: Miscellaneous dangerous substances and articles
- **Danger code (Kemler)**: 90
- **EMS Number**: F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.
- **UN "Model Regulation"**:
  - UN3082, Environmentally hazardous substances, liquid, n.o.s. (Trade Secret), 9, III
**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.
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    Corrosive to eyes
- **GHS label elements**
  - The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

![GHS07](image1) ![GHS09](image2)

- **Signal word** Warning
- **Hazard-determining components of labeling:**
  - hexamethylene diacrylate
  - Trade Secret
- **Hazard statements**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.

(Contd. on page 9)
Safety Data Sheet (SDS)

Reviewed on 11/15/15

Trade name: EMXEA Activator

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

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

* Data compared to the previous version altered.

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