SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : EMX SERIES EPOXY DISPERSION COLORANT
Product code : EMX001-020EDC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use
Uses advised against : None known

1.3. Details of the supplier of the safety data sheet

EpoxyMaster
Corporate Headquarters
1755 W. Big Beaver Rd., Suite 2020
Troy, MI 48084-4726

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300 || Int'l +1 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

<table>
<thead>
<tr>
<th>Property</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>H319</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>H341</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>H401</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>H411</td>
</tr>
</tbody>
</table>

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :

- GHS07
- GHS08
- GHS09

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) :

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H341 - Suspected of causing genetic defects
- H401 - Toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 - Wash hands thoroughly after handling.
- P272 - Contaminated work clothing must not be allowed out of the workplace
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- 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.
- P321 - See first aid section of this material safety data sheet
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
P405 - Store according to local legislation
P501 - Dispose of contents/container in accordance with local, regional, national, international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| epoxy resins, liquids, MM≤700 | (CAS-No.) 25068-38-6 | 44.27 | Skin Irr. 2, H315  
|                               |                     |     | Eye Irr. 2, H319  
|                               |                     |     | Skin Sens. 1, H317  
|                               |                     |     | Aquatic Acute 2, H401  
|                               |                     |     | Aquatic Chronic 2, H411  |
| 2,3-epoxypropyl o-tolyl ether | (CAS-No.) 2210-79-9  | 16.68 | Skin Irr. 2, H315  
|                               |                     |     | Skin Sens. 1, H317  
|                               |                     |     | Muta. 2, H341  
|                               |                     |     | Aquatic Chronic 2, H411  |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage.
Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store according to local legislation. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
<table>
<thead>
<tr>
<th>EMX SERIES EPOXY DISPERSION COLORANT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>OSHA</td>
</tr>
</tbody>
</table>

2,3-epoxypropyl o-tolyl ether (2210-79-9)
ACGIH: Not applicable
OSHA: Not applicable

epoxy resins, liquids, MMS700 (25068-38-6)
ACGIH: Not applicable
OSHA: Not applicable

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Hand protection: Protective gloves.
Eye protection: Safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear respiratory protection.
Environmental exposure controls: Avoid release to the environment.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Mixture contains one or more component(s) which have the following color(s): Colorless Yellow Pure substance: White Unpurified: colored Red-Brown to Black Dark Gray to Black</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Flash point: > 200 °F
Relative evaporation rate (butyl acetate=1): No data available
Percent Solids (calculated value): 88.026 %
Density (calculated value): 13.851 lb/gal

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**
The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**
No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**
None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**
No additional information available

**10.6. Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**
- Not classified

**2,3-epoxypropyl o-tolyl ether (2210-79-9)**
- LD50 oral rat: > 5000 mg/kg (Rat)
- LD50 dermal rat: > 2000 mg/kg (Rat)
- LC50 inhalation rat (mg/l): 6.09 mg/l (4 h, Rat)
- ATE US (vapors): 6.09 mg/l/4h
- ATE US (dust, mist): 6.09 mg/l/4h

**epoxy resins, liquids, MM≤700 (25068-38-6)**
- LD50 oral rat: > 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value)
- LD50 dermal rat: > 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)

**Skin corrosion/irritation**
- Causes skin irritation.

**Serious eye damage/irritation**
- Causes serious eye irritation.

**Respiratory or skin sensitization**
- May cause an allergic skin reaction.

**Germ cell mutagenicity**
- Suspected of causing genetic defects.

**Carcinogenicity**
- Not classified

**Reproductive toxicity**
- Not classified

**Specific target organ toxicity – single exposure**
- Not classified

**Specific target organ toxicity – repeated exposure**
- Not classified

**Aspiration hazard**
- Not classified

**Symptoms/effects after skin contact**
- Irritation. May cause an allergic skin reaction.

**Symptoms/effects after eye contact**
- Eye irritation.
## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general:**
Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3-epoxypropyl o-tolyl ether (2210-79-9)</td>
<td>1 - 10 mg/l (Pisces)</td>
<td>1 - 10 mg/l (Invertebrata)</td>
</tr>
<tr>
<td>Epoxy resins, liquids, MM(\leq)700 (25068-38-6)</td>
<td>2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value)</td>
<td>1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3-epoxypropyl o-tolyl ether (2210-79-9)</td>
<td>Biodegradability in soil: no data available. Not readily biodegradable in water.</td>
</tr>
<tr>
<td>Epoxy resins, liquids, MM(\leq)700 (25068-38-6)</td>
<td>Not readily biodegradable in water.</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,3-epoxypropyl o-tolyl ether (2210-79-9)</td>
<td>2.16 (Estimated value)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
<tr>
<td>Epoxy resins, liquids, MM(\leq)700 (25068-38-6)</td>
<td>31 (Other, Estimated value, Fresh weight)</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Surface tension</th>
<th>Log Koc</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy resins, liquids, MM(\leq)700 (25068-38-6)</td>
<td>58.7 - 58.9 mN/m (20 °C)</td>
<td>2.85 (log Koc, SRC PCKOCWIN v2.0, QSAR)</td>
<td>Low potential for mobility in soil.</td>
</tr>
</tbody>
</table>

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials: Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Transport document description: UN3082 Environmentally hazardous substances, liquid, n.o.s. (EPOXY RESINS), 9, III

UN-No.(DOT): UN3082

Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s. EPOXY RESINS

Class (DOT): 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

Packing group (DOT) : III - Minor Danger
Dangerous for the environment : Yes
Marine pollutant : Yes

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Symbols : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s."
               as appropriate. In addition, for solid materials, special provision B54 applies.
146 - This description may be used for a material that poses a hazard to the environment but
does not meet the definition for a hazardous waste or a hazardous substance, as defined in
171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is
designated as environmentally hazardous by the Competent Authority of the country of origin,
transit or destination.
173 - An appropriate generic entry may be used for this material.
335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous
liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s."
UN3077 and may be transported under this entry, provided there is no free liquid visible at the
time the material is loaded or at the time the packaging or transport unit is closed. Each
transport unit must be leak-proof when used as bulk packaging.
1B3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite
(31H21 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids
with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55
°C (1.3 bar at 131 °F) are authorized, except for UN2672 (also see Special Provision IP8 in Table
2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the
following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature
during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used
provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous
materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the
MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
passenger vessel.

Additional information
Emergency Response Guide (ERG) Number : 171
Other information : No supplementary information available.

ADR
No additional information available

Transport by sea
UN-No. (IMDG) : 3082
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG) : 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG): III - substances presenting low danger

Air transport
UN-No. (IATA): 3082
Proper Shipping Name (IATA): Environmentally hazardous substance, liquid, n.o.s.
Class (IATA): 9 - Miscellaneous Dangerous Goods
Packing group (IATA): III - Minor Danger

SECTION 15: Regulatory information
15.1. US Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations
CANADA
No additional information available

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified

National regulations

Titanium(IV) oxide (13463-67-7)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information
Revision date: 01/27/2020

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H-phrases</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

SDS US (EpoxyMaster)

While the information and recommendations set forth herein are believed to be accurate as of this date, EpoxyMaster makes no warranty with respect to and disclaims all liability from reliance thereon.

01/27/2020  EN (English US)