



## **Gel Coat EPOXY RESIN**

GHS Safety Data Sheet

Date of Preparation: 05/07/15

### **EW INDUSTRIES LTD**

Box 336, Imperial, SK Canada S0G 2J0 1-888-799-3960

www.sierrastone.com

#### **1. Product and Company Identification**

**Product Names:**

- Sierra Stone 3030 Epoxy Resin**
- Sierra Stone 3030 UV Epoxy Resin**
- Sierra Stone 3039 Epoxy Resin**
- Sierra Stone 3039 UV Epoxy Resin**
- Sierra Stone Vertical Epoxy Resin**
- Sierra Stone Gel Coat Epoxy Resin**

**Product Class:** Epoxy Resin

**Manufacturer:** EW Industries Ltd  
Box 336  
Imperial, SK Canada S0G 2J0

**Telephone:** 888-799-3960  
**Emergency:** 800-424-9300 (ChemTrec)

#### **2. Hazard Identification**

**Form:** Viscous liquid.  
**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Skin irritation – Category 2  
Eye irritation – Category 2A  
Skin sensitization – Sub category 1B  
Acute aquatic toxicity – Category 2  
Chronic aquatic toxicity – Category 2

**Label Elements**



**Hazard pictograms:**

**Emergency Overview:** **WARNING!**  
**Hazards:**  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention:**  
Avoid breathing dust/fumes/gas/mist/vapors/spray  
Wash skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear eye protection/face protection.

**Response:**  
**IF ON SKIN:** Wash with plenty of soap and water.  
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**If skin irritation or rash occurs:** Get medical advice/attention.  
**If eye irritation persists:** Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Collect spillage.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards:**

No data available

See Section 11 for more detailed information on health effects and symptoms.

**3. Composition/Information on Ingredients**

**Synonyms:** Liquid Epoxy Resin

This product is a substance.

| Ingredient Name   | CAS Number | %       |
|---|------------|---------|
| Propane, 2,2-bis{p-(2,3-epoxypropoxy)phenyl}-, polymers | 25085-99-8 | 85-100% |
| OXIRANE, MOMO [(C12-14-ALKYLOXY)METHYL] DERIVIS         | 68609-97-2 | <15%    |
| Proprietary   |            | < 10%   |

**4. First Aid Measures**

## Sierra Stone 3030/3030 UV/3039/3039 UV/Vertical/Gel Coat Epoxy Resin

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| <b>Eye Contact:</b>                       | Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.   |
| <b>Skin Contact:</b>                      | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. For contact with hot product, flush contaminated skin with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze. Get medical attention immediately.   |
| <b>Inhalation:</b>                        | Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.  |
| <b>Ingestion:</b>                         | Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| <b>Protection of First Aid Personnel:</b> | In the event of body contact with molten material, immediately cool with running water; do not attempt to remove material from skin. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.   |
| <b>Notes to Physician:</b>                | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |

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| <b>5. Fire-Fighting Measures</b> |
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| <b>Flammability of Product:</b>  | In a fire or if heated, a pressure increase will occur and the container may burst.  |
| <b>Extinguishing Media:</b>      |  |
| <b>Suitable</b>                  | Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol-resistant foams (ATC type) are preferred. General-purpose-synthetic foams (including AFFF) or protein foams may function, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment. |
| <b>Not Suitable</b>              | Do not use direct water stream. May spread fire.   |
| <b>Special Exposure Hazards:</b> | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Smoke may contain the original material in  |

addition to combustion products of varying compositions which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon monoxide, Carbon dioxide. No action shall be taken involving any personal risk or without suitable training.

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| <b>Hazardous Combustion Products</b>                  | Decomposition products may include the following materials: carbon oxides. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen. |
| <b>Special Protective Equipment for Firefighters:</b> | Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.  |

## 6. Accidental Release Measures

|                                   |   |
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| <b>Personal Precautions:</b>      | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).                                  |
| <b>Environmental Precautions:</b> | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |
| <b>Large Spill:</b>               | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. |
| <b>Small Spill:</b>               | Stop leak if without risk. Move containers from spill area. For molten material, allow the product to cool and solidify. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.   |

## 7. Handling and Storage

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| <b>Handling:</b> | Avoid prolonged or repeated contact with skin. Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse |
|------------------|---|

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container. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid Epoxy Resin to explode and catch fire. Application of a direct flame to a container of liquid Epoxy Resin can also cause explosion and/or fire. See Section 8, Exposure Controls and Personal Protection

**Storage:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Note: This resin may be handled, shipped and stored at elevated temperature in bulk. Recommended pumping and storage temperature for bulk shipments if 60 degrees C (140 degrees F).  
Storage temperature: 2 – 43 degrees C (36 – 109 degrees F)  
Shelf Life – Use within 24 months

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| <b>8. Exposure Controls/Personal Protection</b> |
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| <b>Control Parameters:</b>                | None established   |
| <b>Recommended Monitoring Procedures:</b> | If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use protective respiratory equipment.   |
| <b>Engineering Measures:</b>              | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.   |
| <b>Hygiene Measures:</b>                  | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Respiratory:</b>                       | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. In most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vap or cartridge with a particulate pre-filter. |
| <b>Eyes:</b>                              | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.  |
| <b>Skin:</b>                              | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Environmental Exposure Controls:</b>   | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering  |

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modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### 9. Physical and Chemical Properties

|  |   |
|--|---|
| Appearance                             | Viscous liquid  |
| Flash Point                            | Closed cup 264-268 degree C (507-514 degrees F) at 102.89 hPaEC Method A9           |
| Auto-Ignition Temperature              | Not Available   |
| Flammable limits                       |   |
| Lower:                                 | Not applicable  |
| Upper:                                 | Not applicable  |
| Color                                  | Colorless to yellow   |
| pH                                     | Not available   |
| Boiling Point                          | 320 degrees C (608 degrees F) Differential Scanning Calorimetry (DSC) Decomposition |
| Relative Density                       | 1.16 at 20 degrees C (68 degrees F)/20 degrees C Literature                         |
| Vapor Pressure                         | <0.0000001 Pa EC Method A4  |
| Odor Threshold                         | Not available   |
| Viscosity                              | Dynamic – 11,000 – 14,000 mPa.s at 25 degrees C (77 degrees F) ASTM D 445           |
| Water Solubility                       | 5.4 – 8.4 mg/l at 20 degree C (68 degrees F) EU Method A.6                          |
| Partition coefficient: n-Octanol/water | Log Pow: 3.242 Estimated  |
| Evaporation rate                       | Not available   |
| Vapor Density                          | Not available   |

### 10. Stability and Reactivity

|                                  |   |
|----------------------------------|---|
| Chemical Stability               | The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.   |
| Conditions to Avoid              | Avoid short term exposures to temperatures above 300 degrees C. Potentially violent decomposition can occur above 350 degrees C. Avoid prolonged exposure to temperatures above 250 degrees C. Generation of gas during decomposition can cause pressure in closed systems. Pressure build up can be rapid. Avoid contact with oxidizing materials. Avoid contact with: acids, bases. Avoid unintended contact with amines. |
| Materials to Avoid               | Reactive or incompatible with the following materials: oxidizing materials, strong acids, strong alkalis.   |
| Other Hazards                    | Reacts with considerable heat release with some curing agents   |
| Hazardous Decomposition Products | Decomposition products depend upon temperature, air supply and the presence of other materials. Gases are released during decomposition. Uncontrolled exothermic reaction of Epoxy Resins release phenolics, carbon monoxide, and water.  |
| Reactivity                       | No data available.  |

### 11. Toxicological Information

**Acute toxicity** Very low toxicity if swallowed. Harmful effects not anticipated from

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swallowing small amounts.

|           |        |              |
|-----------|--------|--------------|
| LD50 Oral | Rat    | 30,000 mg/kg |
| LD50 Oral | Mouse  | 20,000 mg/kg |
| LD50 Oral | Rabbit | 19.8 mg/kg   |

**Acute dermal toxicity** Prolonged skin contact is unlikely to result in absorption of harmful amounts.

|             |        |               |
|-------------|--------|---------------|
| LD50 Dermal | Rabbit | 23,000 mg/kg  |
| LD50 Dermal | Rat    | >1,200 mg/kg  |
| LD50 Dermal | Mouse  | > 1,270 mg/kg |

**Acute inhalation toxicity** At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.

**Skin Corrosion/irritation**

Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness

**Serious eye damage/eye irritation**

May cause eye irritation. Corneal injury is unlikely.

**Sensitization**

For similar materials: Has caused allergic skin reactions in humans. Has demonstrated the potential for contact allergy in mice.

**Specific Target Organ Systemic Toxicity (single Exposure)**

For respiratory sensitization: No relevant data found.

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Except for skin sensitization, repeated exposures to low molecular weight Epoxy Resins of this type are not anticipated to cause any significant adverse effects.

**Teratogenicity**

Resins based on the diglycidyl ether of bisphenol A (DGEbPA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

**Reproductive toxicity****Mutagenicity**

In animal studies, did not interfere with reproduction.

**Aspiration Hazard**

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

Based on physical properties, not likely to be an aspiration hazard.

**Other Toxicological Information****Carcinogenicity Classification**

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEbPA). The most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that GDEbPA is not classified as a carcinogen. Although some

weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEHPA is carcinogenic.

|       |                |
|-------|----------------|
| ACGIH | Not Classified |
| IARC  | Not Classified |
| NTP   | Not Classified |
| OSHA  | Not Classified |
| EEC   | Not Classified |

## 12. Ecological Information

### Toxicity

Acute toxicity to fish. Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50) between 1 and 10 mg/L in the most sensitive species tested)

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2 mg/l.

Acute toxicity to aquatic invertebrates.

EC50, Daphnia magna (water flea), static test, 48 hour, 1.8 mg/l.

Acute toxicity to algae/aquatic plants

C50, Scenedesmus capricornutum (fresh water algae, static test, 72 Hour, Growth rate inhibition, 1 mg/l.

Toxicity to bacteria.

IC50, Bacteria, 18 Hour, Respiration rates, >42.6 mg/l.

Chronic aquatic toxicity.

Chronic toxicity to aquatic invertebrates.

MATC (Maximum Acceptable Toxicant Level), Daphnia magna (water flea), semi-static test, 21 d, number of offspring, 0.55 mg/l.

### Persistence and degradability

**Biodegradability:** Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Not applicable

Biodegradation: 12%

Exposure time: 28d

Method: OECD Test Guideline 302B or Equivalent

Theoretical Oxygen Demand: 2.35 mg/mg Estimated

**Photodegradation:**

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Atmospheric half-life: 1.92 hour

Method: Estimated

### Bioaccumulative potential

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Lo Pow between 3 and 5.

Partition coefficient: n-octanol/water(log Pow): 3.242 at 25 degrees C



Estimated.

**Mobility in soil** Potential for mobility in soil is low (Koc between 500 and 2000)  
 Given its very low Henry’s constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.  
 Partition coefficient (Koc): 1800-4400 Estimated.

**Other Adverse effects** No known significant effects or critical hazards

**13. Disposal Considerations**

**Waste Disposal** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
 As your supplier, we have no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in the SDS Section: Composition Information. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted Incinerator or other thermal destruction device.

**14: Transport Information**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

DOT Not regulated for transport

Classification for SEA transport (IMO-IMDG):

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)  
 UN Number UN 3082  
 Class 9  
 Packing group III  
 Marine pollutant Epoxy Resin  
 Transport in bulk Consult IMO regulations before transporting  
 According to Annex ocean bulk  
 I or II of MARPOL  
 73/78 and the IBC or  
 IGC Code

Classification for AIR transport (IATA/ICAO):

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|                       |   |
|-----------------------|---|
| Proper Shipping name: | ENVIRONMENTALLY HAZARDOUS SUB-STANCE, LIQUID,<br>N.O.S. (EPOXY RESIN) |
| UN Number             | UN 3082   |
| Class                 | 9   |
| Packing Group         | III   |

|     |               |
|-----|---------------|
| CFR | Non-Regulated |
| TDG | Non-Regulated |

## 15. Regulatory Information

### US Regulations

#### OSHA Hazard Communication Standard

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

#### U.S. Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right –to-Know Act of 1986) Section 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA Sections 311 and 312:  
Acute Health Hazard.

#### United States TSCA Inventory (TSCA):

All components of this product are in compliance with the inventory listing requirements of the U.S Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### State Regulations

SARA 301 Extremely Hazardous Substances – None required.

Massachusetts RTK Substances – None required.

New jersey RTK Hazardous Substances – None required.

Pennsylvania RTK Hazardous Substances – To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Prop. 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

### Canada

#### WHMIS (Canada) Canadian lists

Class D-2B: material causing other toxic effects (Toxic)  
Canadian NPRI: None Required.

### International Regulations

#### Chemical Inventories

Europe inventory – All components are listed or exempted.

Australia inventory (AICS) – All components are listed or exempted.

China inventory ( IECSC) – All components are listed or exempted.

Korea inventory (KECI) – All components are listed or exempted.

Philippines inventory (PICCS) – All components are listed or exempted.

Japan inventory ( ENCS) – All components are listed or exempted.

Canada inventory – All components are listed or exempted

United States inventory (TSCA 8b)– All components are listed or exempted

**16. Other Information**

|   |   |
|---|---|
| <b>Hazardous Material<br/>Information System III<br/>(U.S.A.)</b> | <b>Health: 1<br/>Flammability: 1<br/>Reactivity: 2<br/>Chronic:</b> |
|---|---|

**Caution:** HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDSs under CFR 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

The information provided herein was believed by EW Industries Ltd to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by EW Industries are subject to EW Industries' terms and conditions of sale. EW INDUSTRIES MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY EW INDUSTRIES, except that the product shall conform to EW Industries' specifications. Nothing contained herein constitutes an offer for the sale of any product.