

Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 08/02/2016      Revision date: 08/02/2016      Version: 1.0

**SECTION 1: IDENTIFICATION**

**1.1. PRODUCT IDENTIFIER**

Product name : ZR-10E  
 Product code : Not available

**1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Use of the substance/mixture : Non-Destructive Testing.

**1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

|                          |                    |
|--------------------------|--------------------|
| <b>Manufacturer</b>      | <b>Distributor</b> |
| Magnaflux                |                    |
| 155 Harlem Ave.          |                    |
| Glenview, IL 60025 - USA |                    |
| T: 847-657-5300          |                    |

**1.4. EMERGENCY TELEPHONE NUMBER**

Emergency number : CHEMTREC 800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION**

The hazards given in this SDS apply to the product at full concentration. By diluting the product, the hazards will be reduced. It is up to the employer/user to determine the proper personal protection equipment and safety precautions when using diluted product.

**2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

**GHS classification**

Skin Irrit. 2  
 Eye Irrit. 2A

**2.2. LABEL ELEMENTS**

**GHS labelling**

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) : Warning  
 Hazard statements (GHS) : Causes skin irritation. Causes serious eye irritation.  
 Precautionary statements (GHS) : Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: 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.

**2.3. OTHER HAZARDS**

No additional information available

**2.4. UNKNOWN ACUTE TOXICITY (GHS)**

Not applicable

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. SUBSTANCE**

Not applicable

**3.2. MIXTURE**

| Name                                       | Product identifier  | %     |
|--|---------------------|-------|
| Hexylene glycol                            | (CAS No) 107-41-5   | 37.19 |
| Alcohols, C10-16, ethoxylated propoxylated | (CAS No) 69227-22-1 | 31.39 |

## SECTION 4: FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Symptoms/injuries after inhalation : May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. EXTINGUISHING MEDIA

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam, water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

### 5.3. ADVICE FOR FIREFIGHTERS

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Scoop up material and place in a disposal container.

### 6.3. REFERENCE TO OTHER SECTIONS

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Storage conditions : Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place.

### 7.3. SPECIFIC END USE(S)

Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. CONTROL PARAMETERS

| Hexylene glycol (107-41-5)                              |  |                       |
|---|--|-----------------------|
| ACGIH   | ACGIH Ceiling (ppm)                      | 25 ppm                |
| OSHA  | Not applicable                           |                       |
| USA - NIOSH   | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 125 mg/m <sup>3</sup> |
| USA - NIOSH   | NIOSH REL (ceiling) (ppm)                | 25 ppm                |
| Alcohols, C10-16, ethoxylated propoxylated (69227-22-1) |  |                       |
| ACGIH   | Not applicable                           |                       |
| OSHA  | Not applicable                           |                       |

### 8.2. EXPOSURE CONTROLS

|                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.   |
| Hand protection                  | : Wear chemically resistant protective gloves.   |
| Eye protection                   | : Wear eye protection.   |
| Skin and body protection         | : Wear suitable protective clothing.   |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. 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. |
| Environmental exposure controls  | : Maintain levels below Community environmental protection thresholds.   |
| Other information                | : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.                                       |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

|  |                               |
|--|-------------------------------|
| Physical state                             | : Liquid                      |
| Appearance                                 | : Viscous                     |
| Colour                                     | : Pink                        |
| Odour                                      | : Mild                        |
| Odour threshold                            | : No data available           |
| pH   | : Neutral                     |
| Melting point                              | : No data available           |
| Freezing point                             | : No data available           |
| Boiling point                              | : ≥196 °C (≥385 °F) (initial) |
| Flash point                                | : >93.3 °C (>200 °F)          |
| Relative evaporation rate (butylacetate=1) | : No data available           |
| Flammability (solid, gas)                  | : Not flammable               |
| Explosive limits                           | : No data available           |
| Explosive properties                       | : No data available           |
| Oxidising properties                       | : No data available           |
| Vapour pressure                            | : No data available           |
| Relative density                           | : 0.9                         |
| Relative vapour density at 20 °C           | : No data available           |
| Solubility                                 | : No data available           |
| Partition coefficient: n-octanol/water     | : No data available           |
| Auto-ignition temperature                  | : No data available           |
| Decomposition temperature                  | : No data available           |
| Viscosity                                  | : No data available           |
| Viscosity, kinematic                       | : 21.06 - 25.74 cSt           |
| Viscosity, dynamic                         | : No data available           |

**9.2. OTHER INFORMATION**

VOC content : 334.65 g/l

**SECTION 10: STABILITY AND REACTIVITY**
**10.1. REACTIVITY**

No dangerous reaction known under conditions of normal use.

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions.

**10.3. POSSIBILITY OF HAZARDOUS REACTIONS**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Strong oxidizers. Strong acids. Strong bases.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

May include, and are not limited to: oxides of carbon.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity : Not classified.

| ZR-10E              |   |
|---------------------|---|
| LD50 oral rat       | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LD50 dermal rabbit  | > 2000 mg/kg (Calculated Acute Toxicity Estimate) |
| LC50 inhalation rat | > 20 mg/l/4h (Calculated Acute Toxicity Estimate) |

| Hexylene glycol (107-41-5) |                             |
|----------------------------|-----------------------------|
| LD50 oral rat              | 3700 mg/kg                  |
| LD50 dermal rabbit         | 7890 mg/kg                  |
| LC50 inhalation rat        | > 310 mg/m <sup>3</sup> /1h |

|  |   |
|--|---|
| Skin corrosion/irritation                          | : Causes skin irritation.   |
| Serious eye damage/irritation                      | : Causes serious eye irritation.  |
| Respiratory or skin sensitisation                  | : Based on available data, the classification criteria are not met.   |
| Germ cell mutagenicity                             | : Based on available data, the classification criteria are not met.   |
| Carcinogenicity                                    | : Based on available data, the classification criteria are not met.   |
| Reproductive toxicity                              | : Based on available data, the classification criteria are not met.   |
| Specific target organ toxicity (single exposure)   | : Based on available data, the classification criteria are not met.   |
| Specific target organ toxicity (repeated exposure) | : Based on available data, the classification criteria are not met.   |
| Aspiration hazard                                  | : Based on available data, the classification criteria are not met.   |
| Symptoms/injuries after inhalation                 | : May cause respiratory tract irritation.   |
| Symptoms/injuries after skin contact               | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.  |
| Symptoms/injuries after eye contact                | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/injuries after ingestion                  | : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.  |

**SECTION 12: ECOLOGICAL INFORMATION**
**12.1. TOXICITY**

Ecology - general : May cause long-term adverse effects in the aquatic environment.

**12.2. PERSISTENCE AND DEGRADABILITY**

| ZR-10E                        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

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**12.3. BIOACCUMULATIVE POTENTIAL**

| ZR-10E                    |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

**12.4. MOBILITY IN SOIL**

No additional information available

**12.5. OTHER ADVERSE EFFECTS**

Effect on the global warming : No known effects from this product.

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1. WASTE TREATMENT METHODS**

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with DOT/TDG/IATA/IMDG

|                |                               |
|----------------|-------------------------------|
| DOT (bulk)     | : Not regulated for transport |
| DOT (non-bulk) | : Not regulated for transport |
| TDG            | : Not regulated for transport |
| IATA           | : Not regulated for transport |
| IMDG           | : Not regulated for transport |

**ADDITIONAL INFORMATION**

|                               |   |
|-------------------------------|---|
| Other information             | : No supplementary information available.                                   |
| Special transport precautions | : Do not handle until all safety precautions have been read and understood. |

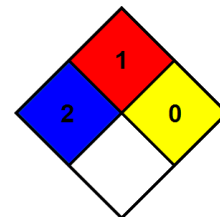
**SECTION 15: REGULATORY INFORMATION**
**15.1. FEDERAL REGULATIONS**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

| Alcohols, C10-16, ethoxylated propoxylated (69227-22-1) |  |
|---|--|
| EPA TSCA Regulatory Flag                                | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)) |

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

|                    |     |
|--------------------|-----|
| NFPA health hazard | : 2 |
| NFPA fire hazard   | : 1 |
| NFPA reactivity    | : 0 |


**15.2. US STATE REGULATIONS**

| ZR-10E                     |   |
|----------------------------|---|
| State or local regulations | This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm |

**SECTION 16: OTHER INFORMATION**

|                   |              |
|-------------------|--------------|
| Date of issue     | : 08/02/2016 |
| Revision date     | : 08/02/2016 |
| Other information | : None.      |

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