SAFETY DATA SHEET

1. Identification

Product identifier MI-GLOW® CORROSION INHIBITOR 7
Other means of identification Not available.
Recommended use Non-destructive testing.
Recommended restrictions None known.
Manufacturer / Importer / Supplier / Distributor information
  Company name Circle Systems, Inc.
  Address 479 West Lincoln Ave.
P.O Box 1228
Hinckley, IL 60520
  Telephone 815-286-3271
  E-mail customerservice@circlesafe.com
  Emergency phone number Chem-tel 800-255-3924 (US & Canada); +1-813-248-0585 (International)

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Acute toxicity (Oral) Category 4
  Skin irritation Category 2
  Eye irritation Category 2A
OSHA defined hazards Not classified.
Label elements

Signal word Warning
Hazard statement Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Precautionary statement
  Prevention Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear
eye protection/face protection. Wear protective gloves.
  Response If swallowed: Call Poison Control Center or doctor/physician if you feel unwell. Skin: Wash with
plenty of soap and water. Eyes: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continuing rinsing. Mouth: rinse mouth. Skin: If skin irritation
occurs, get medical advice/attention. Eye: If eye irritation occurs, get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric acid salt</td>
<td>26038-87-9</td>
<td>&lt; 30</td>
</tr>
<tr>
<td>Boric acid salt</td>
<td>26038-90-4</td>
<td>&lt; 30</td>
</tr>
</tbody>
</table>
4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact
Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur. DO NOT induce vomiting.

Most important symptoms/effects, acute and delayed
Irritation of eyes and mucous membranes.

General information
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch or walk through spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling
Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing mist/vapors/spray. Use with adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Store in a cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits
Contains no substances with occupational exposure limit values.

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
Individual protection measures, such as personal protective equipment

Eye/face protection  
Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection  
Wear protective gloves.

Other  
Wear suitable protective clothing.

Respiratory protection  
In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards  
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations  
When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state  
Liquid.

Form  
Liquid.

Color  
Clear to amber

Odor  
Detergent like.

Odor threshold  
Not available.

pH  
8 – 10.0

Melting point/freezing point  
Not available.

Initial boiling point and boiling range  
Not available.

Flash point  
Not available.

Evaporation rate  
Not available.

Flammability (solid, gas)  
Not relevant.

Upper/lower flammability or explosive limits

Flammability limit – lower (%)  
Not available.

Flammability limit – upper (%)  
Not available.

Explosive limit – lower (%)  
Not relevant.

Explosive limit – upper (%)  
Not relevant.

Vapor pressure  
Not available.

Vapor density  
Not available.

Specific gravity  
1.1 (68 °F (20 °C))

Solubility(ies)  
Soluble in water.

Partition coefficient (n-octanol/water)  
Not available.

Auto-ignition temperature  
Not relevant.

Decomposition temperature  
Not relevant.

Viscosity  
Not available.

Other information

VOC (Weight %)  
Not applicable.

10. Stability and reactivity

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

Chemical stability  
Material is stable under normal conditions.

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

Conditions to avoid  
Contact with incompatible materials.

Incompatible materials  
Strong oxidizing agents.

Hazardous decomposition products  
No hazardous decomposition products are known.
11. Toxicological information

Information on likely routes of exposure

**Ingestion**
Expected to be a low ingestion hazard.

**Inhalation**
May cause irritation to the respiratory system.

**Skin contact**
May cause skin irritation.

**Eye contact**
Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

**Information on toxicological effects**

**Acute toxicity**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric Acid Salt</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td>1,580 mg/kg</td>
</tr>
<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>Prolonged skin contact may cause temporary irritation.</td>
<td></td>
</tr>
<tr>
<td><strong>Serious eye damage/eye irritation</strong></td>
<td>Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory sensitization</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Skin sensitization</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.</td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific target organ toxicity – single exposure</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific target organ toxicity – repeated exposure</strong></td>
<td>No data available.</td>
<td></td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>

12. Ecological information

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulative potential**
No data available for this product.

**Mobility in soil**
Not available.

**Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste from residues / unused products**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

14. Transport information

**DOT**
Not regulated as a hazardous material by DOT.

**IATA**
Not regulated as a dangerous good.

**IMDG**
Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations

- This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- All components are on the U.S. EPA TSCA Inventory List.

  TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D)
  - Not regulated.

  - Not listed.

  CERCLA Hazardous Substance List (40 CFR 302.4)
  - Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- Hazard Categories
  - Immediate Hazard – Yes
  - Delayed Hazard – No
  - Fire Hazard – No
  - Pressure Hazard – No
  - Reactivity Hazard – No

- SARA 302 Extremely hazardous substance
  - No

- SARA 311/312 Hazardous chemical
  - Yes

- SARA 313 (TRI reporting)
  - Not regulated.

Other federal regulations

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Not regulated.

- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Not regulated.

- Safe Drinking Water Act (SDWA)
  - Not regulated.

- Food and Drug Administration (FDA)
  - Not regulated.

US state regulations

- US Massachusetts RTK - Substance List
  - Not regulated.

- US New Jersey Worker and Community Right-to-Know Act
  - Boric acid salt (CAS# 26038-87-9) & Boric acid salt (CAS# 26038-90-4)

- US Pennsylvania RTK - Hazardous Substances
  - Boric acid salt (CAS# 26038-87-9) & Boric acid salt (CAS# 26038-90-4)

- US Rhode Island RTK
  - Not regulated.

- US California Proposition 65
  - This product does not contain a chemical known to the State of California to cause cancer.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Country</td>
<td>Inventory Description</td>
<td>Yes/No</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>(PICCS)</td>
<td></td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s).
A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

- **Issue date**: 17-February-2015
- **Revision date**: 15-November-2017
- **Version #**: 02

#### NFPA Ratings

- **Fire**: 1
- **Health**: 0
- **Reactivity**: 0

#### List of abbreviations

LD50: Lethal Dose, 50%.

#### References

HSDB® - Hazardous Substances Data Bank

#### Disclaimer

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