SAFETY DATA SHEET

1. Identification

Product identifier: MI-GLOW® 600
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: Not classified.
OSHA defined hazards: Combustible dust.
Label elements:
<table>
<thead>
<tr>
<th>Hazard symbol</th>
<th>Signal word</th>
<th>Hazard statement</th>
<th>Precautionary statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>Warning</td>
<td>May form combustible dust concentrations in air.</td>
<td>Prevention</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Response</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Remove and wash contaminated clothing before re-use. In case of fire: Use appropriate media for extinction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Storage</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Store away from incompatible materials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Disposal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dispose of contents/container in accordance with local/regional/national/international regulations.</td>
</tr>
<tr>
<td>Hazard(s) not otherwise classified (HNOC)</td>
<td>Not classified.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplemental information</td>
<td>Not applicable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Composition/information on ingredients

Mixtures
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Oxide</td>
<td>1317-61-9</td>
<td>&gt; 30</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: Move to fresh air. 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: Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion: Rinse mouth. Get medical attention if symptoms occur.
5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust.

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

Specific hazards arising from the chemical
Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

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. Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Large Spills: Sweep or shovel up material and place in a clearly labeled container for waste. Following product recovery, flush area with water.

Small Spills: Collect dust using a vacuum cleaner equipped with HEPA filter.

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

7. Handling and storage

Precautions for safe handling
Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Explosion proof exhaust ventilation is recommended. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid prolonged exposure.

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

8. Exposure controls/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

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

Exposure guidelines
No exposure standards allocated.

Appropriate engineering controls
Explosion-proof general and local exhaust ventilation. 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
Individual protection measures, such as personal protective equipment

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

Skin protection
Hand protection
For prolonged or repeated skin contact, use suitable protective gloves.

Other
Wear suitable protective clothing.

Respiratory protection
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

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: Solid.
- Form: Powder.
- Color: Red.

Odor
- Odor: Odorless.
- Odor threshold: Not available.
- pH: Not available.
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: Not available.
- Flash point: Not relevant.
- Evaporation rate: Not relevant.
- Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits
- Flammability limit – lower (%): Not relevant.
- Flammability limit – upper (%): Not relevant.
- Explosive limit – lower (%): Not available.
- Explosive limit – upper (%): Not available.

Vapor pressure: Not relevant.
Vapor density: Not relevant.
Specific gravity: 0.4 (68 °F (20 °C))

Solubility(ies)
- Solubility (water): Insoluble.
- Partition coefficient (n-octanol/water): Not relevant.
- Auto-ignition temperature: Not relevant.
- Decomposition temperature: Not available.
- Viscosity: Not relevant.
- 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.
11. Toxicological information

Information on likely routes of exposure

- Ingestion: Expected to be a low ingestion hazard.
- Inhalation: Inhalation of dusts may cause respiratory irritation.
- Skin contact: Dust or powder may irritate the skin.
- Eye contact: Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics

- Aspiration hazard: Not a classification.
- Single exposure:
- Repeated exposure:

Information on toxicological effects

- Acute toxicity: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.
- Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.
- Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.
- Respiratory sensitization: Not a respiratory sensitizer.
- Skin sensitization: This product is not expected to cause skin sensitization.
- Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
- Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.
- Specific target organ toxicity – single exposure: Not classified.
- Specific target organ toxicity – repeated exposure: Not classified.
- Aspiration hazard: Not an aspiration hazard.
- Chronic effects: Prolonged inhalation may be harmful.

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 dangerous goods.

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

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 – No
Delayed Hazard – No
Fire Hazard – Yes
Pressure Hazard – No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Reportable quantity</th>
<th>Threshold planning quantity</th>
<th>Threshold planning quantity, lower value</th>
<th>Threshold planning quantity, upper value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>100</td>
<td>500 lbs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous chemical
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.

US state regulations

US Massachusetts RTK - Substance List
Not regulated.

US New Jersey Worker and Community Right-to-Know Act
Not regulated.

US Pennsylvania RTK - Hazardous Substances
Not regulated.

US Rhode Island RTK
Not regulated.

US California Proposition 65
WARNING: This product does contain a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Formaldehyde (CAS 50-00-0)

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>
</tbody>
</table>
Canada: Non-Domestic Substances List (NDSL) - No
China: Inventory of Existing Chemical Substances in China (IECSC) - Yes
Europe: European Inventory of Existing Commercial Chemical Substances (EINECS) - Yes
Europe: European List of Notified Chemical Substances (ELINCS) - No
Japan: Inventory of Existing and New Chemical Substances (ENCS) - Yes
Korea: Existing Chemicals List (ECL) - Yes
New Zealand: New Zealand Inventory - Yes
Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS) - Yes
United States & Puerto Rico: Toxic Substances Control Act (TSCA) Inventory - Yes

*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: 12-May-2014
Revision date: 14-December-2017
Version #: 03
Further information: Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
HMIS® ratings:
Health: 1
Flammability: 1
Physical hazard: 0

NFPA Ratings

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