




SAFETY DATA SHEET

1. Identification

| | | | |
|---|--|-----------------------------|---------------------------------|
| Product identifier | MI-GLOW® 834 | | |
| Other means of identification | None. | | |
| Recommended use | Non-destructive testing. | | |
| Recommended restrictions | None known. | | |
| Manufacturer / Importer / Supplier / Distributor information | | | |
| Company name | Circle Systems, Inc. | | |
| Address | 1210 Osborne Road Saint Marys, GA 31558 | | |
| Telephone | 912-729-2735 | | |
| 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 | Skin corrosion/irritation | | Category 2 |
| | Serious eye damage/eye irritation | | Category 2 |
| | Specific target organ toxicity, single exposure | | Category 3 respiratory tract irritation |
| OSHA defined hazards | Not classified. | | |
| Label elements |  | | |
| Signal word | Warning | | |
| Hazard statement | Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. | | |
| Precautionary statement | | | |
| Prevention | Wash thoroughly after handling. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. | | |
| Response | 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. If on skin; Wash with plenty of water. If skin irritation occurs; Get medical advice/attention. Take off contaminate clothing and wash before reuse. If inhaled; Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. | | |
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. | | |
| 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

| Chemical name | CAS number | % |
|---------------------------|------------|------|
| Iron Oxide | 1317-61-9 | < 20 |
| Sodium Tripolyphosphate | 7758-29-4 | < 70 |
| Tetrasodium pyrophosphate | 7722-88-5 | < 5 |

| | | |
|---|------------|------|
| Butendioic acid, sulfo-1,4-bis(2-ethylhexyl) ester sodium salt | 577-11-7 | < 5 |
| Alcohols, C 12-14 ethoxydated, propoxylated | 68439-51-0 | < 10 |

4. First-aid measures

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| 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 | Immediately flush eyes with plenty of water for at least 15 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. |
| Most important symptoms/effects, acute and delayed | Direct contact with skin and eyes may cause irritation. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | None known. |
| 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

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| 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 | Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Flush area with plenty of water. 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

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| Precautions for safe handling | Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mist/vapors/spray. Use with adequate ventilation. Wear appropriate personal protective equipment. 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

US NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---|------|---------------------|
| Tetrasodium pyrophosphate (CAS 7722-88-5) | TWA | 5 mg/m ³ |

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 Solid.

Form Powder.

Color Dark green.

Odor Detergent like.

Odor threshold Not available.

pH 8 – 10

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. Not available. Not

Explosive limit – upper (%) available. Not

Vapor pressure relevant. Not

Vapor density relevant.

Specific gravity 0.6 (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

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|---|---|
| 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 serious eye irritation. |

Symptoms related to the physical, chemical and toxicological characteristics Dusts or powder may irritate the respiratory tract, skin, and eyes.

Information on toxicological effects

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|---|--|
| Acute toxicity | Ingestion of large quantities may cause irritation, nausea, vomiting, diarrhea, bluish-purple discoloration of skin, decreased blood pressure, decreased heart rate, coma. |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory sensitization | No data available. |
| Skin sensitization | No data available. |
| Germ cell mutagenicity | No data available. |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. |
| Reproductive toxicity | Not expected to be a reproductive hazard. |
| Specific target organ toxicity – single exposure | No data available. |
| Specific target organ toxicity – repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12. Ecological information

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|--------------------------------------|--|
| 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

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|--|--|
| 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 dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

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.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---------------|------------|---------------------|-----------------------------|--|--|
| Formaldehyde | 50-00-0 | 100 | 500 lbs | | |

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.

US state regulations

US Massachusetts RTK - Substance List

Tetrasodium pyrophosphate (CAS 7722-88-5)
Sodium Tripolyphosphate (CAS 7758-29-4)

US New Jersey Worker and Community Right-to-Know Act

Tetrasodium pyrophosphate (CAS 7722-88-5)

US Pennsylvania RTK - Hazardous Substances

Tetrasodium pyrophosphate (CAS 7722-88-5)
Sodium Tripolyphosphate (CAS 7758-29-4)

US Rhode Island RTK

Sodium Tripolyphosphate (CAS 7758-29-4)

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

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| 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) | No |
| 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 | 3-July-2014 |
| Revision date | 30-January-2019 |
| Version # | 03 |
| HMIS® ratings | Health: 1 Flammability: 0 Physical Hazard: 0 |

NFPA Ratings

| | |
|------------------------------|----------------------------|
| List of abbreviations | TWA: Time weighted average |
|------------------------------|----------------------------|

| | |
|-------------------|--|
| References | HSDB® - Hazardous Substances Data Bank |
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