

SAFETY DATA SHEET

1. Identification

MI-GLOW[®] 106 Product identifier

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** 1210 Osborne Road Saint Marys, GA 31558

Telephone 912-729-2735

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Chem-Tel 800-255-3924 (US & Canada); +1-813-248-0585 (International) **Emergency phone number**

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. **OSHA** defined hazards Combustible dust.

Label elements

Hazard symbol None. Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention 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.

Response Remove and wash contaminated clothing before re-use. In case of fire: Use appropriate media

for extinction.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Not classified.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name CAS number % Iron Oxide 1309-37-1 > 95

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.

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Most important symptoms/effects, acute and

delayed Indication of immediate medical attention and special Dust may cause eye, skin and respiratory tract irritation.

Provide general supportive measures and treat symptomatically.

treatment needed

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). 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

General fire hazards

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.

Heat may cause the containers to explode. May form combustible dust concentrations in air.

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.

Never return spills to 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

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

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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.

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.

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 hygieneWhen 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 Black.
Odor Odorless.
Odor threshold Not available.

pH 4 - 8 (50 g/L in water)
Melting point/freezing point 1832 °F (1000 °C)
Initial boiling point and boiling range
Flash point

4 - 8 (50 g/L in water)

1832 °F (1000 °C)

Not available.

Evaporation rate

Not available.

Not available.

Not available.

Not available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%) Not available.

Flammability limit – upper (%) Not available.

Explosive limit – lower (%) Not available.

Explosive limit – upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Specific gravity $4-5 (68 \degree F (20 \degree C))$

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)
Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

VOC (Weight %) Not available.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

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Possibility of hazardous

reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Keep away from heat, sparks and open flame. Minimize dust generation and accumulation.

Contact with incompatible materials.

Strong oxidizing agents.

Incompatible materials

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 Inhalation of dusts may cause respiratory irritation.

Skin contact Dust or powder may irritate the skin.

Eve contact Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics Dust may cause eye, skin and respiratory tract irritation.

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 Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

Not classified.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

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

Specific target organ toxicity -

Not classified.

repeated exposure **Aspiration hazard**

Not an aspiration hazard.

Prolonged inhalation may be harmful. **Chronic effects**

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 available for this product. Bioaccumulative potential

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

No data is available on the degradability of this product.

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. 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

Waste from residues / unused

DOT

products

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as a dangerous good.

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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 – No

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

SARA 302 Extremely

Not listed.

hazardous substance

SARA 311/312 Hazardous Yes

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

Not regulated.

(SDWA)

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

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

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Existing Chemicals List (ECL) Korea Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances **Philippines** Yes

(PICCS)

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

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

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Revision date 13-May-2021

Version#

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.

Further information

HMIS® Ratings



NFPA Rating Health 1

> Flammability 1 Physical Hazard 0

List of

abbreviations

TWA: Time weighted average

References HSDB® - Hazardous Substances Data Bank

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