

SAFETY DATA SHEET

1. Identification

Product identifier	MI-GLOW [®] 106
Other means of identification	Not available.
Recommended use	Non-destructive testing.
Recommended restrictions	None known.
Manufacturer / Importer / Supplie	r / Distributor information
Company name	Circle Systems, Inc.
Address	1210 Osborne Road Saint Marys, GA 31558
Telephone E-mail	912-729-2735 customerservice@circlesafe.com
Emergency phone number	Chem-Tel 800-255-3924 (US & Canada); +1-813-248-0585 (International)

2. Hazard(s) identification

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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 otherwick classified (HNOC)	i se 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.
Most important symptoms/effects, acute and delayed	Dust may cause eye, skin and respiratory tract irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
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	e 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.
General fire hazards	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 f containment and cleaning up	or 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	
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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.
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Exposure guidelines

Appearance

No exposure standards allocated.

Appropriate engineering Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air controls 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. Individual protection measures, such as personal protective equipment

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

Physical state		Solid.
Form		Powder.
Color		Black.
Odor		Odorless.
Odor threshold pH		Not available.
Melting point/freezing point		4 - 8 (50 g/L in water)
Initial boiling point and boiling rar	nge	1832 °F (1000 °C)
Flash point		Not available.
Evaporation rate		Not available.
Flammability (solid, gas)		Not available. Not available.
Upper/lower flammability or explo Flammability limit – lower (%)	sive limits Not availa	able.
Flammability limit – upper (%)	Not availa	able.
Explosive limit – lower (%)	Not availa	able.
Explosive limit – upper (%)	Not availa	able.
Vapor pressure	Not availa	able. Not
Vapor density	available.	4 – 5 (68
Specific gravity	°F (20 °C))
Solubility(ies)		
Solubility (water)	Insoluble.	
Partition coefficient (n-octanol/water)	Not availa	able.
Auto-ignition temperature	Not availa	able.
Decomposition temperature	Not availa	able.
Viscosity	Not availa	able.
Other information		
VOC (Weight %)	Not availa	able.
10. Stability and reactivity		
-		t is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is s	stable under normal conditions.

Contact with incompatible materials. Incompatible materials Strong oxidizing agents. Nexardous decomposition No hazardous decomposition products are known. Products Information 1. Toxicological information Expected to be a low ingestion hazard. Inhalation Inhalation Inhalation Inhalation Skin contact Dust may irritate the skin. Eye contact Dust may irritate the eyes. Symptoms related to the Dust may cause eye, skin and respiratory tract irritation. Acute toxicity Expected to be a low hazard for usual industrial or commercial handling by trained personnel. Serious eye damagelyee Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Not a respiratory sensitization. Not are expiratory sensitization Not are expiratory sensitization. Not are available to indicate product or any components present at greater than 0.1% are begerific target organ toxicity Specific target organ toxicity OSHA. This product is not expected to cause skin sensitization. Not are aspiratory sensitizer. No data available to indicate product or any components present at greater than 0.1% are begerific target organ toxicity. Specific target organ		
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14 Transport information		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

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

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

15. Regulatory information	l	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA F Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.	lazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt D) Not	
regulated.		
	lated Substances (29 CFR 1910.1001-1050)	
Not listed.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.	anythe minestic market of 1000 (CADA)	
Hazard Categories	eauthorization Act of 1986 (SARA) Immediate Hazard – No	
nazaru Gategones	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	Tes	
SARA 313 (TRI reporting)		
Not regulated.		
Other federal regulations		
-	112 Hazardous Air Pollutants (HAPs) List Not	
•	112(r) Accidental Release Prevention (40 CFR 68.130) Not	
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
US Massachusetts RTK - Su	ubstance List Not	
regulated.		
-	Community Right-to-Know Act Not	
regulated.		
US Pennsylvania RTK - Haz	ardous Substances	
Not regulated.		
US Rhode Island RTK		
Not regulated. US California Proposition 6	5	
This product does not contain	a chemical known to the State of California to cause cancer, birth defe	ects or other reproductive
harm. US - California Proposit	tion 65 - Carcinogens & Reproductive Toxicity (CRT): Listed subst	ance
Not listed.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia Canada	Australian Inventory of Chemical Substances (AICS) 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	Yes
_	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan Korea	Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL)	Yes
NUICA		res

New Zealand	New Zealand Inventory
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Yes Yes

Yes

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

Issue date	06-March-2014
Revision date	01-June-2023
Version #	06
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.
MIS® Ratings	\checkmark
NFPA Rating	Health 1 Flammability 1 Physical Hazard 0
List of abbreviations	TWA: Time weighted average
References	
	HSDB [®] - Hazardous Substances Data Bank
Disclaimer	
	The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.