

SAFETY DATA SHEET

1. Identification

Product identifier	MI-GLOW [®] 778			
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			
E-mail	customerservice@circlesafe.com			
Emergency phone number	umber 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	Serious eye damage/eye irritation	Category 2A			
	Reproductive toxicity (fertility, the unborn child)	Category 1B			
OSHA defined hazards	Not classified.	Not classified.			
Label elements	A A				
Signal word	Danger				
Hazard statement	Causes serious eye irritation. May damage fertility	Causes serious eye irritation. May damage fertility or the unborn child.			
Precautionary statement					
Prevention	vention Obtain special instructions before use. Do not handle until all safety precautions have been rea and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/ey protection/face protection.				
Response	•	If exposed or concerned: Get medical advice/attention. 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.			
Storage	Store locked up.				
Disposal	Dispose of contents/container in accordance with local/regional/national/international regu				
Hazard(s) not ot classified (HNOC)	herwiseNot classified.				

3. Composition/information on ingredients

tures Chemical name	CAS number	%
Boric acid	10043-35-3	< 35
Iron Oxide	1317-61-9	< 5
Butendioic acid, sulfo-		
1,4-bis(2-ethylhexyl)	577-11-7	< 3
ester sodium salt		

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	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	Irritation of eyes and mucous membranes.
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. If exposed or concerned: Get medical advice/attention.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water let as an extinguisher, as this will spread the fire

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

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 containment and cleaning up	r 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		

8. Exposure controls/personal protection

Occupational exposure limits

US ACGIH Threshold Limit Values

Туре

Value

Components

Boric acid (CAS 10043-	STEL	6 mg/m3	Inhalable		
35-3)	TWA	2 mg/m3	fraction.		
		0	Inhalable		
			fraction.		
Biological limit values	No biological exposure limits noted for the ingredient(s).				
Appropriate engineering controls	Good general ventilation (typically rates should be matched to con- exhaust ventilation, or other eng recommended exposure limits. If airborne levels to an acceptable le	ditions. If applicable, use ineering controls to maint exposure limits have not b	process enclosures, local ain airborne levels below been established, maintain		
Individual protection measures, s	such as personal protective equipment	nt			
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. Wear appropriate thermal protective clothing, when necessary.				
Thermal hazards					
General hygiene considerations	When using, do not eat, drink or smok as washing after handling the materia wash work clothing and protective equ	al and before eating, drink	ing, and/or smoking. Routinely		

9. Physical and chemical properties

Appearance			
Physical state	Liquid.		
Form	Liquid.		
Color	Dark green.		
Odor	Detergent like.		
Odor threshold	Not available.		
рН	8 - 9		
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) Upper/lower flammability or expl	Not available. Iosive limits		
Flammability limit – lower (%) – upper (%) Not available.	Not available. Flammability limit		
	Not available. Explosive		
limit – upper (%) Not avail	able.		
Vapor pressure Not available.	Vapor density Not		
available. Specific gravity 1.3	68 °F (20 °C))		
Solubility(ies) Soluble in water.			
Partition coefficient (n-octanol/w Auto-ignition temperature	rater) Not available. Not available.		
Decomposition tomporature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
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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	lo 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 informatio	n			
Information on likely routes of ex	(posure			
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 a toxicological characterist Information on toxicological effe				
Acute toxicity				
Components	Species	Test Results		
Boric acid (CAS 10043-35-3)				
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
Oral				
Oral LD50	Rat	> 2000 mg/kg 2660 mg/kg		
<i>Oral</i> LD50 Butendioic acid, sulfo-1,4-bis(2-eth				
<i>Oral</i> LD50 Butendioic acid, sulfo-1,4-bis(2-eth Acute	Rat			
<i>Oral</i> LD50 Butendioic acid, sulfo-1,4-bis(2-eth	Rat			
<i>Oral</i> LD50 Butendioic acid, sulfo-1,4-bis(2-eth Acute <i>Oral</i>	Rat ylhexyl) ester sodium salt (CAS 577-11-7)	2660 mg/kg 2.64 g/kg		
Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth) Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse	2660 mg/kg 2.64 g/kg		
Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth) Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye irritation	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse Prolonged skin contact may cause temporary irritation Causes serious eye irritation.	2660 mg/kg 2.64 g/kg		
Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse Prolonged skin contact may cause temporary irritation Causes serious eye irritation. No data available.	2660 mg/kg 2.64 g/kg		
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Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth) Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse Prolonged skin contact may cause temporary irritation Causes serious eye irritation. No data available. No data available. No data available.	2660 mg/kg 2.64 g/kg n.		
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Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth) Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity –	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse Prolonged skin contact may cause temporary irritation Causes serious eye irritation. No data available. No data available. No data available.	2660 mg/kg 2.64 g/kg n.		
Oral LD50 Butendioic acid, sulfo-1,4-bis(2-eth) Acute Oral LD50 Skin corrosion/irritation Serious eye damage/eye irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity –	Rat ylhexyl) ester sodium salt (CAS 577-11-7) Mouse Prolonged skin contact may cause temporary irritation Causes serious eye irritation. No data available. No data available. No data available. This product is not considered to be a carcinogen by May damage fertility or the unborn child.	2660 mg/kg 2.64 g/kg n.		
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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/international regulations. **Waste from residues / unused**

Dispose of in accordance with local regulations. Empty containers or liners may retain some **products** 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.

ΙΑΤΑ

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to This substance/mixture is not intended to be transported in bulk. Annex II of MARPOL 73/78 and the IBC Code

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 – Yes
	Fire Hazard – No
	Pressure Hazard – No
	Reactivity Hazard – No
PA 202 Extromoly bazard	oue substance

SARA 302 Extremely hazardous substance

	Chemical name	CAS number	Reportable quantity	Threshold	Threshold planning quantity quantity, pl value upper valu	Threshold planning anning quantity, lower le
	Formaldehyde	50-00-0	100	500 lbs		
	SARA 311/312 Hazardo chemical SARA 313 (TRI reportin regulated.					
Ot	her federal regulations					
	Clean Air Act (CAA) Se regulated.	ection 112 Hazard	dous Air Polluta	nts (HAPs) List No	ot	
	Clean Air Act (CAA) Se regulated.	ection 112(r) Acc	idental Release I	Prevention (40 CF	R 68.130) Not	
	Safe Drinking Water Ac (SDWA)	ct Not regula	ated.			
US	state regulations					
	US Massachusetts RTP	K - Substance Lis	st Not			
	regulated.					
	US New Jersey Worker	r and Community	Right-to-Know	Act		
	Boric acid (CAS 100	043-35-3)				
	US Pennsylvania RTK regulated.	- Hazardous Sub	stances Not			

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

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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

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

*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	29-October-2013	
Revision date	29-July-2024	
Version #	07	
HMIS [®] ratings	Health: 2 Flammability: 0 Physical hazard: 0	
NFPA Ratings	200	
List of abbreviations	LD50: Lethal Dose, 50%. STEL: Short term exposure limit 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.	

Yes