

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 / Suppl	ier / 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.co	m
Emergency phone number	Chem-Tel	800-255-3924 (US & Canada); +1-813-248-0585 (International)

2. Hazard(s) identification

Physical bazarda	Not classified.		
Physical hazards			
Health hazards	Serious eye damage/eye irritation	Category 2A	
	Reproductive toxicity (fertility, the unborn child)	Category 1B	
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Causes serious eye irritation. May damage fertility or the unborn child.		
Precautionary statement			
Prevention	•	t handle until all safety precautions have been read ling. Wear protective gloves/protective clothing/eye	
Response		/attention. If in eyes: Rinse cautiously with water for resent and easy to do. Continue rinsing. If eye on.	
Storage	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	%
Boric acid	10043-35-3	< 35
Iron Oxide	1317-61-9	< 5
Butendioic acid, sulfo-1,4-bis(2-ethylhexyl) ester sodium salt	577-11-7	< 3

Skin contact physician if symptoms develop or persist. Skin contact Wash off with scap and water. 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 ungs. Get medical attention if irritation develops and persists. Most important symptoms/effects, acute and elayed indication of immediate medical attention if symptoms occur. Irritation of eyes and muccus membranes. Skintention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed indication of immediate medical personnel are aware of the material(s) involved, and take precaution protect themselves. If exposed or concerned: Get medical advice/attention. 5. Fire-fighting measures Suitable extinguishing media Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. None known. Special protective equipment and precautions or firefighters fire-fighting group procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if y do so without risk. 6. Accidental release measures Keep unnecessary personnel away. Wear appropriate protective equipment and clobing protective equipment and cleaning up. Do not touch or waik through spilled material. Ensure adequiate ventilation. Log authout risk. 6. Accinclental release measures Keep unnecessary personn	4. First-aid measures	
Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lens 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 lungs. Get medical attention if symptoms occur. Most important symptoms/effects, acute and delayed Irritation of eyes and mucous membranes. Provide general supportive measures and treat symptomatically. Symptoms may be delayed 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 precaution protect themselves. If exposed or concerned: Get medical advice/attention. 5. Fire-fighting measures Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do no tuse water jet as an extinguisher, as this will spread the fire. None known. Special protective equipment and mercautions for firefighters Fire-fighting Vater fog. Foam. Or phanting apparatus and full protective clothing must be worn in case of fire and/or explosion do not breathe fumes. Move containers from fire area if y do so withou risk. 6. Accidental release measures Keep unnecessary personnel away. Wear appropriate protective equipment and cleaning up Lease of fire and/or explosion do not breathe fumes. Move containers. Following preceive equipment and cleaning up Methods and materials for containment and cle	Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Ingestion 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 lungs. Get medical attention if symptoms occur. Most important symptoms/effects, acute and delayed Irritation of eyes and muccus membranes. general information 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 precautio protect themselves. If exposed or concerned: Get medical advice/attention. 5. Fire-fighting measures Suitable extinguishing media Unsuitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire. None known. Special protective equipment and percautions, protective equipment and precautions, protectures Self-contained breathing apparatus and full protective clothing must be worn in case of fire and/or explosion do not breathe furmes. Move containers from fire area if y do so without risk. 6. Accidental release measures Keep unnecessary personnel away. Wear appropriate protective equipment and clothing, clean-up. Do not touch or walk through spilled material. Ensure adequate ventilation. Loc authout risk. Sub the flow of material, if this is without risk. Dike the spilled material. 6. Accidental release measures Small Spills: Wipe up with a	Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
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8. Exposure controls/personal protection	8. Exposure controls/pers	sonal protection

Occupational exposure limits US ACGIH Threshold Limit Values Type Value Form Components Type Value Form Boric acid (CAS 10043-35-3) STEL 6 mg/m3 Inhalable fraction. TWA 2 mg/m3 Inhalable fraction.

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	s, 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		

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 applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or exp	plosive limits
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit – lower (%)	Not relevant.
Explosive limit – upper (%)	Not relevant.
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/water)	Not available.
Auto-ignition temperature	Not relevant.
Decomposition temperature	Not relevant.
Viscosity	Not available.
Other information	
VOC (Weight %)	Not applicable.
0. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

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	on		
Information on likely routes of e	xposure		
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 and toxicological characteristics Information on toxicological effe	Irritation of eyes and mucous membranes.		
Acute toxicity			
Components	Species	Test Results	
Boric acid (CAS 10043-35-3)			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral			
LD50	Rat	2660 mg/kg	
Butendioic acid, sulfo-1,4-bis(2-eth	nylhexyl) ester sodium salt (CAS 577-11-7)		
Acute			
Oral			
LD50	Mouse	2.64 g/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary in		
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 carcinoge	en by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	May damage fertility or the unborn child.		
Specific target organ toxicity – single exposure	No data available.		
Specific target organ toxicity – repeated exposure	No data available.		
Aspiration hazard	No data available.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information			
Ecotoxicity	The product is not classified as environmentally possibility that large or frequent spills can have		
Persistence and degradability	No data is available on the degradability of this		
Bioaccumulative potential	No data available for this product.		
Mobility in soil	Not available.		
Other adverse effects	No other adverse environmental effects (e.g. oz potential, endocrine disruption, global warming		
13. Disposal considerations			
Disposal instructions	Collect and reclaim or dispose in sealed contain		
Waste from residues / unused products	contents/container in accordance with local/regional/national/international regulations.		

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

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 Haza chemical SARA 313 (TRI repo					
Not regulated.					
Other federal regulatio	ns				
	Section 112 Hazard	ous Air Polluta	nts (HAPs) List		
Not regulated.					
Clean Air Act (CAA)	Section 112(r) Acci	dental Release I	Prevention (40 CFR 68	3.130)	
Not regulated.					
Safe Drinking Water (SDWA)	r Act Not regula	ted.			
IS state regulations					
US Massachusetts	RTK - Substance List	t			
Not regulated.					
US New Jersey Wor	ker and Community	Right-to-Know	Act		
Boric acid (CAS	10043-35-3)				
US Pennsylvania R ⁻	FK - Hazardous Subs	tances			
Not regulated.					
US Rhode Island R	ſĸ				
Not regulated.					
Not regulated. US California Propo	sition 65				

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	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).

beyond our knowledge. Therefore, the information is provided without any representation or

16. Other information, including date of preparation or last revision

Issue date	29-October-2013
Revision date	14-December-2017
Version #	03
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

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