

# SAFETY DATA SHEET

## 1. Identification

Product identifier	MI-GLOW <sup>®</sup>	<sup>°</sup> 778
Other means of identification	Not available.	
Recommended use	Non-destructiv	e testing.
Recommended restrictions	None known.	
Manufacturer / Importer / Suppli	er / Distributo	r information
Company name	Circle Systems, Inc.	
Address	1210 Osborne	road
	Saint Marys, G	A 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	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		ot handle until all safety precautions have been read ling. Wear protective gloves/protective clothing/eye	
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 regulations.	
Hazard(s) not otherwise classified (HNOC)	Not classified.		

### 3. Composition/information on ingredients

ixtures		
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

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a
Innalation	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 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.
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 ca do so without risk.
6. Accidental release mea	sures
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	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 precaution have been read and understood. Wear appropriate personal protective equipment. Avoid conta 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 incompatible materials (see Section 10 of the SDS).
	sonal protection

US ACGIH Threshold Limit Val	ues		
Components	Туре	Value	Form
Boric acid (CAS	STEL	6 mg/m3	Inhalable fraction.
10043-35-3)	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.	
<b>Respiratory protection</b>	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

Auto-ignition temperature	Not relevant.
Partition coefficient (n-octanol/water)	Not available.
Solubility(ies)	Soluble in water.
Specific gravity	1.3 (68 °F (20 °C))
Vapor density	Not available.
Vapor pressure	Not available.
Explosive limit – upper (%)	Not relevant.
Flammability limit – upper (%) Explosive limit – lower (%)	Not available. Not relevant.
Flammability limit – lower (%)	Not available.
Upper/lower flammability or exp	
Flammability (solid, gas)	Not relevant.
Evaporation rate	Not available.
range Flash point	Not applicable.
Initial boiling point and boiling	Not available.
Melting point/freezing point	Not available.
рН	8 - 9
Odor threshold	Not available.
Odor	Detergent like.
Color	Dark green
Form	Liquid.
Physical state	Liquid.

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 s	ystem.
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 membran	es.
Acute toxicity	5013	
Components	Spacios	Test Results
Boric acid (CAS 10043-35-3)	Species	1 631 1/630113
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral	Rabbit	> 2000 Hig/kg
LD50	Rat	2660 mg/kg
	rylhexyl) ester sodium salt (CAS 577-11-	
Acute		,
Oral		
LD50	Maura	
Skin corrosion/irritation	Mouse	2.64 g/kg
	Prolonged skin contact may cause temp	porary initiation.
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 c	carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	May damage fertility or the unborn child	1.
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		mentally hazardous. However, this does not exclude the an have a harmful or damaging effect on the environme
Persistence and degradability	No data is available on the degradabilit	
Bioaccumulative potential	No data available for this product.	
Mobility in soil	Not available.	
Other adverse effects		(e.g. ozone depletion, photochemical ozone creation varming potential) are expected from this component.
13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed	d containers at licensed waste disposal site. Dispose of
Waste from residues / unused products	Dispose of in accordance with local reg	ocal/regional/national/international regulations. ulations. Empty containers or liners may retain some container must be disposed of in a safe manner (see:

#### 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 Hazaro chemical	dous Yes				
SARA 313 (TRI report	ting)				
Not regulated.					
Other federal regulation	S				
Clean Air Act (CAA) S Not regulated.	Section 112 Hazard	ous Air Polluta	nts (HAPs) List		
Clean Air Act (CAA) \$	Section 112(r) Accid	lental Release I	Prevention (40 CFR 68	8.130)	
Not regulated.					
Safe Drinking Water A	Act Not regulat	ed.			
US state regulations					
US Massachusetts R	TK - Substance List				
Not regulated.					
US New Jersey Work	•	Right-to-Know /	Act		
Boric acid (CAS 1	,				
US Pennsylvania RTI	K - Hazardous Subs	tances			
Not regulated.	_				
US Rhode Island RTH	K				
Not regulated.					
US California Propos					
	ict acce contain a ch	mical known to	the State of California t	o cause cancer	

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	Yes
Europe	Substances (EINECS) 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).

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

Issue date	29-October-2013
Revision date	30-January-2019
Version #	04
HMIS <sup>®</sup> 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 <sup>®</sup> - Hazardous Substances Data Bank
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