

SAFETY DATA SHEET

1. Identification

MI-GLOW[®] 820S-RTU

Product identifier	MI-GLOW [®] 820S-RTU	
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	815-286-3271	
E-mail	customerservice@circlesafe.com	
Emergency phone number	Chem-tel 800-255-3924	

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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye 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 regulations.
Hazard(s) not otherwise classified (HNOC)	Not classified.	

3. Composition/information on ingredients

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

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 Eye contact	Wash off with soap and water. Get medical attention if irritation develops and persists. 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 Indication of immediate medical attention and special treatment needed	Irritation of eyes and mucous membranes. 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 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 incompatible materials (see Section 10 of the SDS).
8. Exposure controls/pers	sonal protection
Occupational exposure limits	

US. ACGIH Threshold Limit ValuesComponentsTypeValueFormBoric acid (CAS
10043-35-3)STEL6 mg/m3Inhalable fraction.TWA2 mg/m3Inhalable 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 measure Eye/face protection	s, such as personal protective equipment 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 p	roperties

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Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Detergent like.
Odor threshold	Not available.
рН	8 – 10
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 available.
Upper/lower flammability or exp	losive limits
Flammability limit – lower (% Flammability limit – upper (% Explosive limit – lower (%) Explosive limit – upper (%)	
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1.5
Specific gravity temperature	68 °F (20 °C)
Solubility(ies)	Soluble in water.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
VOC (Weight %)	Not available.

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.

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Species	Test Results
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Rabbit	> 2000 mg/kg
Rat	2660 mg/kg
exyl) ester sodium salt (CAS 577-11-7)	
Mouse	2.64 g/kg
rolonged skin contact may cause temporary irrita	ation.
auses serious eye irritation.	
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	WIARC ACGIH NTP or OSHA
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	o data available. rolonged inhalation may be harmful. ne product is not classified as environmentally has ossibility that large or frequent spills can have a o data is available on the degradability of this pro o data available for this product. ot available. o other adverse environmental effects (e.g. ozor otential, endocrine disruption, global warming po

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 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 **U**S 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 No 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 Boric acid (CAS 10043-35-3) 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)	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

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Issue date	16-June-2014
Revision date	08-August-2024
Version #	05
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.