

# SAFETY DATA SHEET

### 1. Identification

MI-GLOW® UNDERWATER 12 Product identifier

Other means of identification

Recommended use Non-destructive testing.

**Recommended restrictions** None known.

Manufacturer / Importer / Supplier / Distributor information

Circle Systems, Inc. Company name 1210 Osborne Road **Address** 

St. Marys, GA 31558

**Telephone** 912-729-2735

E-mail customerservice@circlesafe.com

Chem-tel **Emergency pnone number** 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 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. Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

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.

Store locked up. Storage

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	%
Borax decahydrate	1303-96-4	< 15
Sodium Carbonate	497-19-8	< 10
Dioctyl Sodium Sulfosuccinate	577-11-7	< 5

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# 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.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs. Get medical attention if symptoms occur.

Irritation of eyes and mucous membranes.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and specia

medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

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

Ingestion

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 can

do so without risk.

**Specific methods** No unusual fire or explosion hazards noted.

### 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 for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Flush area with plenty of water. 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 contact with eyes, skin, and clothing. Wash thoroughly after handling. Avoid breathing mist/vapors/spray. Use with adequate ventilation. Wear appropriate personal protective equipment. 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/personal protection

#### Occupational exposure limits

**US ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Borax decahydrate (CAS 1303-96-4)	STEL	6 mg/m3	Inhalable fraction.
·	TWA	2 mg/m3	Inhalable fraction.

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#### **US NIOSH: Pocket Guide to Chemical Hazards**

Value Components Type TWA 5 mg/m3 Borax decahydrate (CAS

1303-96-4)

**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, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves. Hand protection

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

**Appearance** 

Solid. Physical state **Form** Powder. Color Red.

Odor Detergent like. **Odor threshold** Not available. 8 - 9.5Ha

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point Not relevant. **Evaporation rate** Not relevant. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not relevant.

(%)

Flammability limit - upper

Not relevant.

(%)

Explosive limit – lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not relevant.

Vapor density Not relevant. Specific gravity 0.8 (68 °F (20 °C)) Solubility(ies) 10 - 99 % Soluble. **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not relevant. **Decomposition temperature** Not relevant. **Viscosity** Not available.

Other information

VOC (Weight %) Not applicable.

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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

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

products

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard. Inhalation May cause irritation to the respiratory Skin contact system. May cause skin irritation.

Eye contact Causes eye irritation.

Symptoms related to the Irritation of eyes and mucous membranes. physical, chemical and toxicological characteristics Information on toxicological effects

Acute toxicity

Components **Test Results** Species

### Borax decahydrate (CAS 1303-96-4)

Acute

Dermal

LD50 Rabbit > 10000 mg/kg

Oral

LD50 Rat 5.66 g/kg

Dioctyl Sodium Sulfosuccinate (CAS 577-11-7)

**Acute** 

Oral

LD50 Mouse 2.64 g/kg

### Sodium carbonate (CAS 497-19-8)

Acute Inhalation

LC50 Rat 2300 mg/m<sup>3</sup>, 2 Hours

Skin corrosion/irritation Prolonged skin contact may cause temporary

Serious eye damage/eye

irritation. Causes serious eye irritation.

irritation

Respiratory sensitization This product is not expected to cause respiratory sensitization.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% Germ cell mutagenicity

are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified

repeated exposure

**Aspiration hazard** Not classified.

**Chronic effects** Prolonged inhalation may be harmful.

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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/national/international regulations.

Waste from residues / unused products

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.

**IATA** 

Not regulated as a dangerous good.

**IMDG** 

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

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)** 

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 **Threshold Threshold** Threshold planning quantity planning quantity planning quantity, quantity, upper lower value value Formaldehyde 50-00-0 100

500 lbs

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

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### 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**

Borax decahydrate (CAS 1303-96-4).

### US New Jersey Worker and Community Right-to-Know Act

Borax decahydrate (CAS 1303-96-4).

#### **US Pennsylvania RTK - Hazardous Substances**

Borax decahydrate (CAS 1303-96-4).

#### **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(a) or region

Country(s) or region	inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

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

Inventory name

Issue date 21-June-2018 **Revision date** 14-February-2019

Version # 02

United States & Puerto Rico

**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.

On inventory (year)\*

Yes

HMIS® ratings

Health: 1 Flammability: 1 Physical hazard: 0

**NFPA Ratings** 



List of abbreviations LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

STEL: Short-term Exposure Limit TWA: Time weighted average

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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).

References

HSDB® - Hazardous Substances Data Bank

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MI-GLOW<sup>®</sup> UNDERWATER 12