Circle Systems, Inc.

SAFETY DATA SHEET

1. Identification

Product identifier **MI-GLOW® WCP**

Other means of identification None.

Recommended use Non-destructive testing.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / 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.com

Emergency phone number Chem-tel 800-255-3924 (US & Canada); +1-813-248-0585 (International)

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Eye Irritant	Category 2
Environmental hazards	Hazardous due to the aquatic environment, acute hazard	Category 2

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/clothing/eye/face protection. Wash hands and exposed skin after use.

Response If swallowed: Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Do NOT induce vomiting.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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	%*
Acetone	67-64-1	60-70

Propane	74-98-6	10-20
Talc	14807-96-6	1-10
Glycol Ether PM Acetate	108-65-6	1-10
Xylene	1330-20-7	< 1
Titanium Dioxide	13463-67-7	5-15

Additional information Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.

Contains Ethylbenzene (CAS# 100-41-4)

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. If breathing is labored, administer oxygen. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water for several minutes. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed None.

Indication of immediate medical attention and special treatment needed If Swallowed: Immediately call a POISON CONTROL CENTER or a doctor/physician.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Contents under pressure. Pressurized container may explode when exposed to heat or flame. Highly flammable vapor (flash point below 23°C).

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 Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.

Specific methods Move containers from fire area if you can do so without risk.

General fire hazards Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Use water spray to reduce vapors or divert vapor cloud drift. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Avoid inhalation of aerosols. Use only in well-ventilated areas. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid prolonged or repeated contact with skin.
Conditions for safe storage, including any incompatibilities	Do not handle or store near an open flame, heat or other sources of ignition. Protect from direct sunlight. Do not puncture, incinerate or crush. Store away from incompatible materials (see Section 10 of the SDS). Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F.

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	1000
Xylene (CAS 1330-20-7)	PEL	100 ppm
Ethylbenzene (CAS 100-41-1)	PEL	100 ppm
Propane (CAS 74-98-6)	PEL	1000 ppm
Talc (CAS 14807-96-6)	PEL	20 mppcf

US ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	TWA STEL	500 750
Xylene (CAS 1330-20-7)	TWA STEL	100 ppm 150 ppm
Ethylbenzene (CAS 100-41-1)	TWA	20 ppm

Propane (CAS 74-98-6)	TWA	Aspyx.#
Talc (CAS 14807-96-6)	TWA	2mg/m³

Recommended monitoring method	NIOSH 1300 (Ketones I); NIOSH 1500 (hydrocarbons, B.P. 36-126 °C); NIOSH 1501 (Hydrocarbons, Aromatic)
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.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Skin protection	
Hand protection	Wear suitable gloves if prolonged skin contact likely (butyl rubber).
Other	Wear suitable protective clothing.
Respiratory protection	Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.
Thermal hazards	Not normally required. Used gloves with insulation for thermal protection, when needed.
General hygiene considerations	When using, do not 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	
Physical state	Liquid.
Form	Aerosol can.
Color	White.
Odor	Acetone-like.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	-104 °C (-155 °F); Propane
Evaporation rate	Not available.
Flammability (solid, gas)	Extremely flammable aerosol.
Explosive limit range	2.1%-9.5%v/v. (Propane)
Vapor pressure (Pascal)	ca. 95 X 104 (Propane)
Vapor density (Air=1)	ca. 1.56 @ 0°C (Propane)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	465°C (869°F) Acetone
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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	Avoid temperatures exceeding the flash point. Contact with incompatible materials. Avoid temperatures above 122°F (50°C).
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, and acrid smoke.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.

Information on toxicological effects

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	> 15800 mg/kg, bw
Inhalation		
LC50	Rat	76 mg/l, 4 hours
Oral		
LD50	Rat	5800 mg/kg, bw
Xylene (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, bw
Inhalation		
LC50	Rat	27.6 mg/l, 4 hours
Oral		
LD50	Rat	3520 mg/kg, bw

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% 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	Not expected to be a reproductive hazard.
Specific target organ toxicity – single exposure	May cause drowsiness and dizziness.
Specific target organ toxicity – repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	Prolonged inhalation may be harmful.

Other information	Contains: Ethylbenzene (CAS# 100-41-4). A3 - Confirmed Animal Carcinogen (ACGIH)

12. Ecological information

Ecotoxicity	Toxic to aquatic life.
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	This substance has low potential for bioaccumulation.
Mobility in soil	This substance has high mobility in soil.
Results of PBT and vPvB	Not applicable.
Other adverse effects	None known.

13. Disposal considerations

Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all 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

UN number	UN1950
UN proper shipping name	Aerosols, Flammable, Ltd Qty
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1, Ltd Qty
Packing group	Y203
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None.
Packaging bulk	None.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, Flammable, Ltd Qty
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1, Ltd Qty
Packing group	Y203
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1950
UN proper shipping name	Aerosols, Flammable, Ltd Qty
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1, Ltd Qty
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.

Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not established.

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 or polymer exempt.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Chemical Name	CAS No.	Typical % wt.	RQ (pounds)
Acetone	67-64-1	70-80	5000
Xylene (mixed isomers)	1330-20-7	< 1	100
Ethylbenzene	100-41-4	< 0.2	1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories	Immediate Hazard – Yes Delayed Hazard – Yes Fire Hazard – Yes Pressure Hazard – Yes Reactivity Hazard – No
SARA 302 Extremely hazardous substance	None.
SARA 311/312 Hazardous chemical	Yes

SARA 313 (TRI reporting)

Chemical Name	CAS No.	Typical % wt.
Acetone	67-64-1	
Ethylbenzene	100-41-4	

US state regulations

US California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Toulene (CAS 108-88-3)*; Benzene (CAS 71-43-2)*; Methanol (CAS 67-56-1)*
*Trace amounts.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/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	19-January-2015
Revision date	15-November-2017
Version #	02

HMIS® ratings	Health: 2 Flammability: 4 Physical hazard: 0
NFPA Ratings	
List of abbreviations	LC50: Lethal Concentration, 50%. LD50: Lethal Dose, 50%. PEL: Permissible exposure limit STEL: Short term exposure limit TWA: Time weighted average
References	HSDB® - Hazardous Substances Data Bank
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