

SAFETY DATA SHEET

1. Identification

Product identifier	CIRCLES	OL M™
Other means of identification	Not available.	
Recommended use	Non-destructiv	ve testing.
Recommended restrictions	None known.	
Manufacturer / Importer / Suppli	er / Distributo	r information
Company name	Circle System	is, Inc.
Address	1210 Osborne	e Road
	St. Marys, GA	31558
Telephone	912-729-2735	5
E-mail	customerserv	ice@circlesafe.com
Emergency phone number	Chem-tel	800-255-3924 (US & Canada); 1-813-248-0585 (International)

2. Hazard(s) identification

Health hazards	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards		
Label elements		
Signal word	Danger	
Hazard statement	May be fatal if swallowed and end	nters airways.
Precautionary statement		
Prevention	Not applicable	
Response		poison center/doctor. Do NOT induce vomiting. If inhaled: keep comfortable for breathing. Call a poison center/doctor if you
Storage	Store locked up. Keep away from	n heat, sparks, flames, and hot surfaces.
Disposal	Dispose of contents/container in	accordance with local/regional/national/international regulations
Hazard(s) not otherwise classified (HNOC)	None known.	

3. Composition/information on ingredients Substance Chemical name CAS number Distillates (petroleum), Hydrotreated Light 64742-47-8 100 4. First-aid measures Invalue Invalue Invalue Inhalation If symptoms develop move victim to fresh air. 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 Ingestion	Rinse with water for at least 10 minutes. Get medical attention if irritation develops and persists. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If
ingestion	vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed Indication of immediate medical attention and special treatment needed	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures	5
Suitable extinguishing media	Alcohol-resistant foam. Dry chemical. 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	In a fire or if heated, a pressure increase will occur and the container may burst.
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	Not applicable.
Specific methods	Not applicable.
General fire hazards	NFPA Class IIIB combustible liquid.

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. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the container to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Cover with plastic sheet to prevent spreading. 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	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. 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. 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,	Ambient temperature and pressure.
including any incompatibilities	Do not handle or store near an open flame, heat or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. NIOSH: Pocket Guide to Chemical Hazards

Components		Туре	Value
Distillates (petroleum), Hyc (CAS 64742-47-8)	Irotreated Light	TWA	ACGIH: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours
Biological limit values	No biological e	xposure limits noted fo	r the ingredient(s).
Appropriate engineering controls	should be mate or other engine	ched to conditions. If an ering controls to maint	air changes per hour) should be used. Ventilation rates plicable, use process enclosures, local exhaust ventilation, ain airborne levels below recommended exposure limits. If shed, maintain airborne levels to an acceptable level.
Individual protection measu Eye/face protection			nent r cartridge and full facepiece.
Skin protection			
Hand protection	Wear appropria	ate chemical resistant g	loves.
Other	Wear suitable p	protective clothing.	
Respiratory protection	excessive airbo cartridge and fu	orne levels of mist or va ull facepiece.	required except in emergencies or when conditions cause apors – then use a chemical respirator with organic vapor lothing, when necessary.
General hygiene considerations	When using, do after handling t	o not smoke. Always ol	oserve good personal hygiene measures, such as washing eating, drinking, and/or smoking. Routinely wash work

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Mild. Hydrocarbon.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-49°C (-56.2°F)
Initial boiling point and boiling	223.89-268.8°C (435-515°F)
range Flash point	Closed cup: 96.11 °C (205 °F)
Evaporation rate	0.082 (butyl acetate = 1).
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit – lower	0.6%
(%) Flammability limit – upper (%)	5.5%
Explosive limit – lower (%)	Not available.
Explosive limit – upper (%)	Not available.
Vapor pressure	0.031 to 0.06 kPa (0.23 to 0.45 mm Hg)
Vapor density	4.5 [Air = 1]
Relative density	0.825
Solubility(ies)	
Solubility (water)	1.5 g/l
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	>220°C (>428°F)

Decomposition temperature	Not available.
Viscosity	Kinematic (40°C (104°F)): 2 mm ² /s (2 cSt)
Other information	
Pour Point	-48.33°C (-55°F)

10. Stability and reactivit	у
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 Conditions to avoid	No dangerous reaction known under conditions of normal use. Avoid temperatures exceeding the flash point.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Ingestion Inhalation	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Expected to be a low ingestion hazard. 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 dryness and irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and er	iters airways.
Components	Species	Test Results
Distillates (petroleum), Hydrotrea	ted Light (CAS 64742-47-8)	
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, bw
Inhalation		
LC50	Rat	> 5.28 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg, bw
Skin corrosion/irritation	Prolonged skin contact may cause	e temporary irritation.
Serious eye damage/eye irritation Respiratory or skin sensitizatio	Direct contact with eyes may cause	se temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to ca	ause skin sensitization.
Germ cell mutagenicity	No data available to indicate prod mutagenic or genotoxic.	luct or any components present at greater than 0.1% are
Carcinogenicity	This product is not considered to	be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1	1050)
Not listed.		
Reproductive toxicity	Not expected to be a reproductive	e hazard.
Specific target organ toxicity – single exposure	May cause drowsiness and dizzin	less.
Specific target organ toxicity – repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and ent	ers airways.
Chronic effects	Prolonged inhalation may be harn	nful.

CIRCLESOL M™

12. Ecological informatio	Toxic to aquatic life
Ecotoxicity Persistence and degradability	Toxic to aquatic life. No data is available on the degradability of this product.
Bioaccumulative potential	No data available. No data available.
Mobility in soil	
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 consideration	ns
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.	
ΙΑΤΑ	
Not regulated.	
IMDG	
Not regulated.	
15. Regulatory information	n
US federal regulations	
TSCA Section 12(b) Export Not regulated.	TSCA 8(a) CDR Exempt/Partial exemption Notification (40 CFR 707, Subpt D) od Substances (29 CFR 1910.1001-1050)
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050)
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TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) reauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) teauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) teauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No
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TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous	Notification (40 CFR 707, Subpt D) ed Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) teauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) Reauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No Not listed.
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting)	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) Reauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No Not listed.
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TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA)	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) teauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No Not listed. No 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 CFR 68.130)
TSCA Section 12(b) Export Not regulated. OSHA Specifically Regulate Not listed. CERCLA Hazardous Substa Not listed. Superfund Amendments and R Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Sectior Not regulated. Clean Air Act (CAA) Sectior Not regulated. Safe Drinking Water Act	Notification (40 CFR 707, Subpt D) d Substances (29 CFR 1910.1001-1050) ance List (40 CFR 302.4) reauthorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No Not listed. No 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

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

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

US Pennsylvania RTK - Hazardous Substances

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

US Rhode Island RTK

Not regulated.

US California Proposition 65

WARNING: This product does not contain chemicals known to the State of California to cause cancer.

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

None.

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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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	11-November-2014	
Revision date	16-July-2024	
Version #	07	
HMIS [®] ratings	Health: 1 Flammability: 1 Physical hazard: 0	
NFPA Ratings		
List of abbreviations	LC50: Lethal Concentration, 50% LD50: Lethal Dose, 50% TWA: Time weighted average	
References	HSDB [®] - Hazardous Substances Data Bank	
Disclaimer	The information in this 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.	