

SAFETY DATA SHEET

1. Identification

Product identifier CIRCLESOL M™

Other means of identification Not available.

Recommended use Non-destructive testing.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

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

St. Marys, GA 31558

Telephone 912-729-2735

customerservice@circlesafe.com E-mail

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 enters airways.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a

well-ventilated area. Avoid release to the environment.

If swallowed: Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and Response

keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Do NOT induce

vomiting.

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

Mixtures

| Chemical name | CAS number | % |
|--|------------|-----|
| Distillates (petroleum), Hydrotreated Light | 64742-47-8 | 100 |

4. First-aid measures

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.

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Eye contact Rinse with water. 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

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

During fire, gases hazardous to health may be formed.

Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

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.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

Do not smoke while using. 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, including any incompatibilities

Ambient temperature and pressure.

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).

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8. Exposure controls/personal protection

Occupational exposure limits

US. NIOSH: Pocket Guide to Chemical Hazards

 Components
 Type
 Value

 Distillates (petroleum),
 TWA
 100 mg/m3

Hydrotreated Light (CAS

64742-47-8)

Biological limit valuesNo 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection Respiratory protection is not normally required except in emergencies or when conditions cause

excessive airborne levels of mist or vapors – then use a chemical respirator with organic vapor

cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene When using, do not smoke. Always observe good personal hygiene measures, such as washing considerations 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 Liquid.
Color Water white.

Odor Mild hydrocarbon.
Odor threshold Not available.

Physical state Liquid.
Material State Liquid.
Not available.

pH 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 96.11 °C (205 °F)

Evaporation rate 0.082 (butyl acetate = 1).

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit – lower 0.6%

(%)

Flammability limit – upper 5.5%

(%)

Explosive limit – lower (%) Not available.

Explosive limit – upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.825

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 220°C (>428°F)

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Not available. **Decomposition temperature**

4.1 cSt @ 20°C, 68°F **Viscosity**

Other information

VOC (Weight %) 815-821 g/l

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.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known. Hazardous gases and vapors produced in fire products

are oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Ingestion 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.

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 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 enters airways. Narcotic effects.

Components **Species Test Results**

Distillates (petroleum), Hydrotreated 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 temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

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.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not expected to be a reproductive hazard. Specific target organ toxicity -May cause drowsiness and dizziness.

single exposure

Specific target organ toxicity -

repeated exposure **Aspiration hazard**

Not classified.

May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

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12. Ecological information

Ecotoxicity Toxic to aquatic life.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil No data 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.

IATA

Not regulated.

IMDG

Not regulated.

15. Regulatory information

US federal regulations This product is not 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous

Nο

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not listed.

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

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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

Australian Inventory of Chemical Substances (AICS)

None.

International Inventories Country(s) or region

Australia

Philippines

| 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 |

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory
*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).

Philippine Inventory of Chemicals and Chemical Substances

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

Inventory name

Issue date11-November-2014Revision date01-June-2023

Version # 07

Health: 1

Flammability: 1 Physical hazard: 0

NFPA Ratings

HMIS® ratings



List of abbreviations LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%. TWA: Time weighted average

References HSDB® - Hazardous Substances Data Bank

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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.

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On inventory (yes/no)*

Yes

Yes

Yes