

SAFETY DATA SHEET

1. Identification

Product identifier CIRCLESAFE® 800A

Other means of identification None

Recommended use Non-destructive testing.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Company name
Address
Circle Systems, Inc.
1210 Osborne Road

Saint Marys, GA 31558

Telephone 9412-729-2735

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

Aspiration hazard Category 1

Environmental hazards Hazardous due to the aquatic environment, Category 2

acute hazard

OSHA defined hazards

Label elements

Not classified.



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways. May cause drowsiness or dizziness. Toxic to aquatic life.

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.

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

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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	%
Distillates (petroleum), Hydrotreated Light	64742-47-8	>95

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Carbon Dioxide 124-38-9 <5

4. First-aid measures

If symptoms develop move victim to fresh air. Call a POISON CENTER or doctor/physician if you Inhalation

feel unwell.

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

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

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. High concentrations: Inhalation of propellant may cause respiratory irritation, dizziness, nausea, or drowsiness.

Indication of immediate medical attention and special treatment needed

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

Suitable extinguishing media

Unsuitable extinguishing media

Alcohol resistant foam. Water fog. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2).

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

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Specific methods

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

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

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.

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. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the cylinder 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.

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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. 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

Level 1 Aerosol.

Do not handle or store near an open flame, heat or other sources of ignition. 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	Туре	Value	
Carbon dioxide (CAS 124-38-9)	PEL	5000 ppm	

US ACGIH Threshold Limit Values

Components	Type	Value	
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
US NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
	TWA	30000 ppm 9000 mg/m3	
		5000 ppm	

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

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Biological limit values

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.

100 mg/m3

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 protectionChemical respirator with organic vapor cartridge and full facepiece. **Thermal hazards**Wear appropriate thermal protective clothing, when necessary.

TWA

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

Phy	/sical state	Liquid.

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Form Aerosol. Color Dark green.

Odor Slight petroleum odor.

Odor threshold Not available. Hq Not available. Melting point/freezing point <-68 °C, <-90 °F 239-276 °C, 464-528 °F

Initial boiling point and boiling

range

109 °C (229 °F) Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.2%

(%)

Flammability limit - upper

6%

(%)

Explosive limit – lower (%) Not available. Not available. Explosive limit – upper (%)

Vapor pressure 0.02 mm Hg @ 20 °C (68 °F)

Vapor density 6.7

Specific gravity 0.821 at 15.5 °C (60 °F)

Solubility(ies)

Solubility (water) Insoluble. Not available. Partition coefficient (n-octanol/water)

216°C, 421°F **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

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. Avoid

temperatures above 122 °F (50 °C).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

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 May cause 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. High concentrations: Inhalation of propellant may cause

respiratory irritation, dizziness, nausea, or drowsiness.

CIRCLESAFE® 800A SDS US 921529 Version #: 03 Revision date: 30-January-2019 Issue date: 13-November-2014 4/8 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

Serious eye damage/eye irritation

Prolonged skin contact may cause temporary 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.

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

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.

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. Contents under

pressure. Do not puncture, incinerate or crush. 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

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.

306 Packaging exceptions

CIRCLESAFE® 800A SDS US 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 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)

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 – No Fire Hazard – Yes Pressure Hazard – Yes Reactivity Hazard – No

SARA 302 Extremely hazardous substance

(Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
	Formaldehyde	50-00-0	100	500 lbs		

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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

Carbon dioxide (CAS 124-38-9)

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

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

Carbon dioxide (CAS 124-38-9)

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

US Pennsylvania RTK - Hazardous Substances

Carbon dioxide (CAS 124-38-9)

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

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(s) or region

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

^{*}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 13-

United States & Puerto Rico

Revision date

November-2014

Version #

30-January-2019

HMIS® ratings

Health: 2 Flammability: 2 Physical hazard: 0

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Yes

On inventory (yes/no)*

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).

NFPA Ratings



List of abbreviations 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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