

SAFETY DATA SHEET

1. Identification Product identifier

CIRCLESAFE[®] 820A

Other means of identificationNot available.Recommended useNon-destructive testing.Recommended restrictionsNone known.Manufacturer / Importer / Supplier / Distributor information

Company name Address	Circle Systems, Inc. 1210 Osborne Road
	Saint Marys, GA 31558
Telephone	912-729-2735
E-mail	customerservice@circlesafe.com

Australian Distributor Information:

Russell Fraser Sales Pty Ltd 7/38 Waratah Street Kirrawee, NSW 2232 02 9545 4433 rfs@rfsales.com.au rfsales.com.au

Emergency Only Contact Australia: 000

2. Hazard(s) identification

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Physical hazards	Gases under pressure	Compressed gas
Health hazards	Reproductive toxicity	Category 1B
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Contains gas under pressure; m	ay explode if heated. May damage fertility or the unborn child.
Precautionary statement		
Prevention	1	e use. Do not handle until all safety precautions have been read gloves/protective clothing/eye protection/face protection.
Response	•	edical advice/attention. If in eyes: Rinse cautiously with water for t lenses, if present and easy to do. Continue rinsing. If eye dvice/attention.
Storage	Store locked up. Protect from su	nlight. Store in a well-ventilated place.
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

Chemical name	CAS number	%
Boric Acid	10043-35-3	<5
Carbon Dioxide	124-38-9	<5
Iron Oxide	1317-61-9	<5

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.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	High concentrations: Inhalation of propellant may cause respiratory irritation, dizziness, nausea, or drowsiness.
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Symptoms may be delayed.
General information	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

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Suitable extinguishing media	Water fog. Foam. Dry chemical powder. 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	Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
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	Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	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. Following product recovery, flush area with water.
	thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
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.
Conditions for safe storage, including any incompatibilities	sparks, or other sources of ignition. Ground and bond containers when transferring material.

. Exposure controls/pe	rsonal protection		
Occupational exposure limits	or Air Contaminants (29 CFR 1910.10	00)	
Components	Type	Value	
Carbon dioxide (CAS	PEL	5000 ppm	
124-38-9)			
US ACGIH Threshold Limit	/alues		
Components	Туре	Value	Form
Boric acid (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
10043-33-3)	TWA	2 mg/m3	Inhalable fraction.
Carbon dioxide (CAS	STEL	30000 ppm	
124-38-9)	774/4	5000	
	TWA	5000 ppm	
US NIOSH: Pocket Guide to			
Components	Type STEL	Value	
Carbon dioxide (CAS 124-38-9)	SIEL	54000 mg/m3 30000 ppm	
	TWA	9000 mg/m3 5000 ppm	
Biological limit values	No biological exposure limits noted f		
controls	should be matched to conditions. If a or other engineering controls to main exposure limits have not been estab es, such as personal protective equi	ntain airborne levels below recor lished, maintain airborne levels	nmended exposure limits.
Eye/face protection	Wear safety glasses with side shield		
Skin protection			
Hand protection	Wear protective gloves.		
Other	Wear suitable protective clothing.		
Respiratory protection	If permissible levels are exceeded us air-supplied respirator.	se NIOSH mechanical filter / org	anic vapor cartridge or an
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations	When using, do not smoke. Always a after handling the material and befor clothing and protective equipment to	e eating, drinking, and/or smoki	
9. Physical and chemical p	properties		
Appearance			
Physical state	Liquid.		
Form	Aerosol.		
Color	Black.		
Odor	Detergent like.		
Odor threshold	Not available.		
pH	8-10		
Melting point/freezing point	Not available.		

CIRCLESAFE[®] 820A 916274 Version #: 04 Revision date: 30-January-2019 Issue date: 29-October-2013

Not available.

Not available.

Not available.

Not relevant.

Initial boiling point and boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Upper/lower flammability or expl	losive limits
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit – lower (%)	Not relevant.
Explosive limit – upper (%)	Not relevant.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1
Specific gravity temperature	68°F (20°C)
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not relevant.
Decomposition temperature	Not relevant.
Viscosity	Not available.
Other information	
VOC (Weight %)	Not applicable.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

The Texicological Informat		
Information on likely routes of	exposure	
Ingestion	Expected to be a low ingestion hazar	d.
Inhalation	May cause irritation to the respiratory	v system.
Skin contact	May cause skin irritation.	
Eye contact	May cause eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	High concentrations: Inhalation of pro or drowsiness.	opellant may cause respiratory irritation, dizziness, nausea,
Information on toxicological ef	ffects	
Acute toxicity	Expected to be a low hazard for usu	al industrial or commercial handling by trained personnel.
Components	Species	Test Results
Boric acid (CAS 10043-35-3)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	2660 mg/kg
Butendioic acid, sulfo-1,4-bis(2-e	ethylhexyl) ester sodium salt (CAS 577-1	1-7)
Acute Oral		
LD50	Mouse	2.64 g/kg

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.
Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity – single exposure	No data available.
Specific target organ toxicity – repeated exposure	No data available.
Aspiration hazard	No data available.
Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	
Ecotoxicity	Not expected to be harmful to aquatic organisms.
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	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	2.2
Subsidiary classes	-
Label(s)	Limited Quantity, Class 2.2
Packing group	Y203
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None.
Packaging bulk	None.
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	2.2
Subsidiary class(es)	-
Label(s)	Limited Quantity, Class 2.2
Packing group	Y203
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	2.2
Subsidiary class(es)	-
Label(s)	Limited Quantity, Class 2.2
Packing group	Y203
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk	This substance/mixture is not intended to be transported in bulk.
according to Annex II of MARPOL 73/78 and 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.
	otification (40 CFR 707, Subpt D)
Not regulated.	Substances (29 CFR 1910.1001-1050)
Not listed.	Substances (29 CFR 1910.1001-1050)
	nce L ist (40 CER 302 4)
CERCLA Hazardous Substai	
CERCLA Hazardous Substan Not listed.	
Not listed.	
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Not listed.	authorization Act of 1986 (SARA) Immediate Hazard – No
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Not listed. Superfund Amendments and Re	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No
Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes
Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely hazardous substance	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No No
Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No
Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No No
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Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated.	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No No
Not listed. Superfund Amendments and Re Hazard Categories SARA 302 Extremely hazardous substance SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No No
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Not listed. Superfund Amendments and Re 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.	authorization Act of 1986 (SARA) Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No No Yes
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US California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed. International Inventories

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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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).

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

Issue date	29-October-2013
Revision date	27-July-2017
Version #	03
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
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
Disclaimer	The information in this (M)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.