



MATERIAL SAFETY DATA SHEET

CIRCLESAFE® 800A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

CIRCLE SYSTEMS, INC.

479 W. Lincoln, P.O. Box 1228

Hinckley, IL 60520

815-286-3271 / After Hours EMERGENCY RESPONSE: Chem-tel 800-255-3924

TRADE NAME: **CIRCLESAFE® 800A**

FORMULA: A fluorescent magnetic powder in a petroleum hydrocarbon distillate; aerosol packaged.

HMIS Rating: Health 1, Flammability 1, Reactivity 0

2. COMPOSITION, INFORMATION ON INGREDIENTS:

<u>MATERIAL</u>	<u>C.A.S. #</u>	<u>%</u>	<u>TLV</u>
Carbon Dioxide	124-38-9	1-2	5000 ppm, ACGIH
Iron Oxide	12227-89-3	<1	10 mg/m ³
Petroleum Hydrocarbon Distillate	64742-47-8	>95	(5 mg/m ³ for oil mist)

3. HAZARDS IDENTIFICATION:

THRESHOLD LIMIT VALUE: 5000 ppm for Carbon Dioxide

EFFECTS OF OVEREXPOSURE: Avoid eye and skin contact. Product may be irritating to eyes upon direct contact. Product is non-irritating to skin upon direct contact but prolonged or repeated exposure may result in dermatitis which makes the skin more susceptible to other irritants. Exposure to solvent vapors exceeding the TLVs can cause respiratory system irritation. Do not ingest.

4. FIRST AID MEASURES:

EYES: Flush with copious amounts of water; continue flushing until irritation subsides.

INHALATION: Remove subject to fresh air. If breathing has stopped or is irregular, administer artificial respiration and supply oxygen if it is available.

SKIN: Wash contaminated area thoroughly with soap and water.

INGESTION: Do not induce vomiting; call a physician immediately.

SEEK MEDICAL ATTENTION IN ALL CASES

5. FIRE FIGHTING MEASURES:

FLASH POINT (METHOD USED): 215°F (Pensky Martins Closed Cup)

FLAMMABLE LIMITS: LEL 1.0%; UEL 6.0%

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Water may be ineffective but can be used to cool fire-exposed containers. If water is used, fog nozzles are preferable. Wear goggles and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to heat may cause bursting of aerosol cans.

6. ACCIDENTAL RELEASE MEASURES:

Contain spill immediately. Do not allow spill to enter sewers or water courses. Remove all sources of ignition. Absorb with appropriate inert material such as sand, clay, etc.

7. HANDLING AND STORAGE:

Store in a clean area away from heat, sparks, open flame, and oxidizing materials. Do not store where temperature may exceed 120°F. Exposure to heat or prolonged exposure to sun may cause bursting. Do not transfer to unmarked containers.

OTHER PRECAUTIONS: Use only as directed. Intentional misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal. Use explosion-proof equipment. No smoking or open lights. Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

VENTILATION REQUIREMENTS: Local exhaust if OSHA limits are exceeded; adequate ventilation when vapor or mist is generated. Avoid continuous breathing of vapors.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

EYE: Splash-proof safety goggles or plastic face shield

RESPIRATORY: As needed in confined or enclosed spaces; when vapor or mist is generated. NIOSH approved self-contained breathing apparatus required for concentrations above TLV limits.

GLOVES: Recommended for prolonged or repeated exposure – impervious synthetic rubber

OTHER CLOTHING & EQUIPMENT: Impervious synthetic rubber boots, apron, etc. recommended for body parts subject to prolonged exposure

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING RANGE: 455 - 525°F

SPECIFIC GRAVITY (H₂O=1): 0.82

PRESSURE IN CAN: @ 70°F approximately 85 psi

% VOLATILE BY VOLUME: 98

VAPOR DENSITY (AIR=1): >1

EVAPORATION RATE (ETHER=1): Greater than ether.

SOLUBILITY IN WATER: Negligible

APPEARANCE & ODOR: Forest green liquid, slight odor contained in an aerosol package.

10. STABILITY AND REACTIVITY:

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide and/or carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION:

TLV (Threshold Limit Value): 5000 ppm for Carbon Dioxide

CARCINOGENICITY: Contains no known suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH

12. ECOLOGICAL INFORMATION:

No available data.

13. DISPOSAL CONSIDERATIONS:

Do not incinerate, puncture or place aerosol can into compactor. Dispose of all the waste material according to applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION:

D.O.T. SHIPPING NAME: Consumer Commodity

D.O.T. Hazard Class: ORM-D

U.N./N.A. Number: None

Canadian Labels: Compressed Gas

15. REGULATORY INFORMATION:

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response Compensation, and Liability Act): NOT Reportable.

SARA TITLE III (Superfund Amendments and Reauthorization Act), SECTION 313 (Reportable Ingredients): No reportable ingredients.

CALIFORNIA PROPOSITION 65: Contains nothing on this list.

16. OTHER INFORMATION:

PREPARED BY: Deborah A. Shreve

TITLE: Vice President/Director of Quality Control

ISSUE DATE: January 7, 2008

SUPERSEDES DATE: January 10, 2007

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