



MATERIAL SAFETY DATA SHEET

CIRCLESAFE® 778A

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 Contract# MIS0001649

TRADE NAME: **CIRCLESAFE® 778A**

FORMULA: A fluorescent magnetic powder, water conditioner, and surfactant concentrate; aerosol packaged.

HMIS Rating: Health 1, Flammability 0, 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	<5	5000 ppm/5000 ppm
Iron Oxide	12227-89-3	<5	10 mg/m ³

REMARKS - A larger percentage of this material consists of a combination of water conditioner and rust preventative mixture which is not considered hazardous.

3. HAZARDS IDENTIFICATION:

THRESHOLD LIMIT VALUE: 5000 ppm for Carbon Dioxide

EFFECTS OF OVEREXPOSURE: Material may cause eye, skin, and mucus irritation; dizziness or headache if inhaled in large quantities

4. FIRST AID MEASURES:

EYES: Flush with copious amounts of water

INHALATION: Remove subject to fresh air

SKIN: Flush with water

INGESTION: Do not induce vomiting. Drink large amounts of water.

SEEK MEDICAL ATTENTION IN ALL CASES

5. FIRE FIGHTING MEASURES:

FLASH POINT (METHOD USED): n.a.

FLAMMABLE LIMITS: n.a.

EXTINGUISHING MEDIA: n.a.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool containers to prevent bursting.

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

6. ACCIDENTAL RELEASE MEASURES:

Wipe up spill with absorbent material and rinse area with water.

7. HANDLING AND STORAGE:

Store in a clean area away from extreme heat or cold. Do not store where temperature may exceed 120 degrees F. Do not store near heat, fire, flame or sparks.

OTHER PRECAUTIONS: Use only as directed. Intentional misuse may be harmful or fatal.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION:

VENTILATION REQUIREMENTS: Must be adequate to maintain vapors at less than 5000 ppm for carbon dioxide.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

EYE: Safety glasses or goggles

RESPIRATORY: As needed in confined or enclosed spaces; when vapor or mist exceeds TLV level. Then use NIOSH approved self-contained breathing device or respirator.

GLOVES: Recommended - rubber gloves

OTHER CLOTHING & EQUIPMENT: n.a.

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: approximately 212°F.

SPECIFIC GRAVITY (H₂O=1): 1.0 for contents

PRESSURE IN CAN: @ 70°F approximately 85 psi

% VOLATILE BY VOLUME: n.a.

VAPOR DENSITY (AIR=1): Heavier than air.

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

SOLUBILITY IN WATER: Appreciable

APPEARANCE & ODOR: Forest green solution with a slight detergent odor, contained in an aerosol package.

10. STABILITY AND REACTIVITY:

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: n.a.

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:

US DOT Surface Shipping Description (49 CFR): Consumer Commodity, ORM-D

US DOT Air Shipping Description (49 CFR): Consumer Commodity, ORM-D (requires ORM-D-Air label), Passenger Aircraft

IATA Shipping Description: Consumer Commodity, Class 9, ID 8000, Packing Instruction 910

IMDG Shipping Description: Aerosols, 2.2, UN1950, LTD QTY

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

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