



# SAFETY DATA SHEET

Product: MARC 135 COIL CLEANER

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 135 COIL CLEANER

SDS DATE: 09/27/16

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 Columbus, NE 68602-0927

PHONE: 402-564-7104 FAX: 402-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

E-MAIL: marc@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Air Conditioner Coil Cleaner.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

### CLASSIFICATION:

Flammable Aerosol: Category 2

Liquefied Gas

Eye Irritant: Category 2b



**HAZARD STATEMENT(S)/SIGNAL WORD:** **WARNING:** Flammable Aerosol. Contains gas under pressure; May explode if heated. Causes eye irritation.

**PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and 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. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Wash hands thoroughly after handling. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**POTENTIAL HEALTH EFFECTS:** See Section 11 for more information.

This product contains the following percentage of chemicals of unknown toxicity: 0%

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
Propane/N-Butane	68476-86-8	3% - 7%
2-Butoxyethanol	111-76-2	5% - 10%
Isopropyl Alcohol	67-63-0	1% - 5%
EDTA	60-00-4	.5% - 1.5%
Potassium Hydroxide	1310-58-3	.5% - 1.5%

\*Designates that a specific chemical identity and /or percentage of composition has been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

**EYES:** Remove contact lenses, if present, and easy to do. Flush with water for at least 15 minutes Continue rinsing. If eye irritation persists: Get medical advice or attention.

**SKIN:** Immediately wash skin with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.

**INGESTION:** Rinse mouth with water. **DO NOT INDUCE VOMITING** unless directed by medical authority. Seek immediate medical attention if irritation persists.



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**INHALATION:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness, call a Poison Control Center or doctor for further treatment advice. Have a product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

**ACUTE HEALTH HAZARDS:** Eyes: redness, tearing, blurred vision.

**CHRONIC HEALTH HAZARDS:** None known.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** There is no specific treatment regime. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### SECTION 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use media appropriate for surrounding fire.

**UNSUITABLE EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### EMERGENCY PROCEDURES:

**SPILL:** Use non-combustible material like vermiculite, sand or earth on spill – sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

**PROTECTIVE EQUIPMENT:** Use personal protective devices as stated in Section 8.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Same as EMERGENCY PROCEDURES.

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not flame cut, braze, or weld. Empty container very hazardous!

**RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).

### SECTION 7: HANDLING AND STORAGE

#### GENERAL HANDLING AND STORAGE:

Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures above 50°C/122°F. Pressurized container. Do not pierce or burn, even after use.

**OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN!!** Follow label directions exactly.

**INCOMPATIBILITY:** Strong acids.



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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Propane/n-Butane	1000 ppm	1000 ppm
2-Butoxyethanol	50 ppm	20 ppm
Isopropyl Alcohol	500 ppm	400 ppm
EDTA	Not Established	Not Established
Potassium Hydroxide	2 mg/m3	2 mg/m3

### ENGINEERING CONTROLS/ VENTILATION:

General ventilation should be used. Provide sufficient mechanical ventilation (general and/or local exhaust) to maintain exposure below the recommended exposure limits.

**RESPIRATORY PROTECTION:** Not required with adequate ventilation.

**EYE PROTECTION:** Safety glasses are always recommended when using chemicals.

**SKIN PROTECTION/PROTECTIVE GLOVES:** N/A

**WORK HYGIENIC PRACTICES:** Always observe good personal hygiene measures, such as washing hands and clothing after handling the material and before eating, drinking, and/or smoking.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE-</b>	
<b>PHYSICAL STATE/COLOR:</b>	Clear, colorless, Aerosol Spray
<b>ODOR:</b>	Citrus scent, moderate ammonia odor.
<b>ODOR THRESHOLD:</b>	N/D
<b>BOILING POINT:</b>	N/D
<b>FREEZING POINT:</b>	>32°F (0°C)
<b>FLAMMABILITY:</b>	Flammable Aerosol
<b>FLASH POINT:</b>	N/D
<b>AUTO-IGNITION TEMPERATURE:</b>	N/D
<b>LOWER FLAMMABILITY LIMIT:</b>	N/A
<b>UPPER FLAMMABILITY LIMIT:</b>	N/A
<b>VAPOR PRESSURE (mmHg):</b>	23.8 mmHg @ 25°C (77° F)
<b>VAPOR DENSITY (AIR = 1):</b>	1
<b>EVAPORATION RATE:</b>	< 0.8 (Slow)
<b>SPECIFIC GRAVITY:</b>	1.000 @ 77°F 77°F (25° C)
<b>pH:</b>	12.3
<b>SOLIDS (%):</b>	3%
<b>SOLUBILITY IN WATER:</b>	100%
<b>PARTITION COEFFICIENT, n-OCTANOL/WATER (Kow):</b>	N/D
<b>VOLATILITY INCLUDING WATER (%):</b>	97%
<b>VOLATILE ORGANIC COMPOUNDS (VOC):</b>	>15%
<b>DIELECTRIC STRENGTH (Volts):</b>	N/A
<b>DECOMPOSITION TEMPERATURE:</b>	N/D
<b>VISCOSITY:</b>	N/D

## SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** Chemically active metals and acids.

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Do not mix with strong acids.

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids.



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**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.

**POSSIBLE HAZARDOUS REACTIONS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** None

### SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Not established.

**ROUTES OF ENTRY:** Eyes, ingestion, inhalation, skin.

**EYES:** Causes irritation. May cause mild burns if left untreated.

**SKIN:** Causes irritation, dermatitis with prolonged exposure.

**INGESTION:** Causes gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, abdominal cramps.

**INHALATION:** Causes dizziness, headaches upon long term exposure.

**MEDICAL CONDITIONS AGGRAVATED :** Asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. Skin irritation may be aggravated in individuals with existing skin disorders.

**ACUTE HEALTH HAZARDS:** **EYES:** redness, tearing, blurred vision.

**CHRONIC HEALTH HAZARDS:** None known.

**CARCINOGENICITY:** **OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** No

### SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** **Ethylenediaminetetraacetic Acid (EDTA)** (60-00-4) ec50 (Daphnia Magna, 48hr)>100 mg/L; LC50 (Fish, Freshwater) 159 mg/L

**BIODEGRADABILITY:** This product is biodegradable.

**BIOACCUMULATION:** This product is not expected to bioaccumulate.

**SOIL MOBILITY:** This product is mobile in soil.

**OTHER ECOLOGICAL HAZARDS:** None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations. Do not flame cut, braze, or weld. Empty container very hazardous!

**RCRA STATUS:** Product should be fully characterized prior to disposal (40 CFR 261).



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### SECTION 14: TRANSPORT INFORMATION

#### U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S):	AEROSOL 18 OZ.
PROPER SHIPPING NAME:	CLEANING COMPOUND
HAZARD CLASS:	N/A
ID NUMBER:	N/A
PACKING GROUP:	N/A
LABEL STATEMENT:	LTD QTY

### SECTION 15: REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT STATUS): All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: None.

SARA 313 REPORTABLE INGREDIENTS: None.

STATE REGULATIONS: California's Proposition 65: None

INTERNATIONAL REGULATIONS: All components are listed or exempted.

### SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1  
Flammability = 0  
Reactivity = 1  
Other = -  
Protection = A

REVISION DATE: 09/27/16

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