



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/m ³	2 mg/m ³

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

APPEARANCE-

PHYSICAL STATE/COLOR:

Clear, colorless, Aerosol Spray

ODOR:

Citrus scent, moderate ammonia odor.

ODOR THRESHOLD:

N/D

BOILING POINT:

N/D

FREEZING POINT:

>32°F (0°C)

FLAMMABILITY:

Flammable Aerosol

FLASH POINT:

N/D

AUTO-IGNITION TEMPERATURE:

N/D

LOWER FLAMMABILITY LIMIT:

N/A

UPPER FLAMMABILITY LIMIT:

N/A

VAPOR PRESSURE (mmHg):

23.8 mmHg @ 25°C (77° F)

VAPOR DENSITY (AIR = 1):

1

EVAPORATION RATE:

< 0.8 (Slow)

SPECIFIC GRAVITY:

1.000 @ 77°F 77°F (25° C)

pH:

12.3

SOLIDS (%):

3%

SOLUBILITY IN WATER:

100%

PARTITION COEFFICIENT,

n-OCTANOL/WATER (Kow):

N/D

VOLATILITY INCLUDING WATER (%):

97%

VOLATILE ORGANIC COMPOUNDS (VOC):

>15%

DIELECTRIC STRENGTH (Volts):

N/A

DECOMPOSITION TEMPERATURE:

N/D

VISCOSITY:

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

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.