



SAFETY DATA SHEET

Product: MARC 153 COIL CLEANER PLUS

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 153 COIL CLEANER PLUS**

SDS DATE: 01/12/2021

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: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Coil cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Aerosols Category 1, Gases Under Pressure-Compressed Gas, Germ Cell Mutagenicity - Category 1B.

SIGNAL WORD: Danger. **Hazardous Statements – Physical:** Extremely flammable aerosol.

Contains gas under pressure; may explode if heated. **Hazardous Statements – Health:** May cause genetic defects. **Precautionary Statements – General:** If medical advice is needed, have product

container or label at hand. Keep out of reach of children. Read label before use. **Precautionary Statements – Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. **Precautionary Statements – Response:** If exposed or concerned: Get medical attention. **Precautionary Statements – Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Store locked up. **Precautionary Statements – Disposal:** Dispose of contents and container in accordance with local, regional, national and international regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS NO.</u>	<u>CHEMICAL NAME</u>	<u>PERCENT</u>
0000111-76-2	Ethylene Glycol Monobutyl Ether	2% - 5%
0068476-86-8	Petroleum Gases, Liquefied, Sweetened	4% - 8%
0009016-45-9	Polyethylene Glycol Nonylphenyl Ether	1% - 2%
0000067-63-0	Isopropyl Alcohol	0.1% - 2.0%
0006834-92-0	Sodium Metasilicate	0.1% - 1.1%

Specific percentages claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/If concerned: Get medical advice/attention. **Eye Contact:** Rinse eyes cautiously with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention. **Skin Contact:** Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists. **Ingestion:** Ingestion is not a likely route of exposure. Get medical attention if you feel unwell. **Most Important Symptoms/Effects, Acute and Delayed:** No data available. **Indication of Immediate Medical Attention and Special Treatment Needed:** No data available.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, alcohol foam, carbon dioxide, dry chemical, water fog. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only. Do not direct a solid stream of water or foam into hot, burning pools this may result in frothing and increase fire intensity. **Unsuitable Extinguishing Media:** No data available. **Specific Hazards in Case of Fire:** Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a buildup of internal pressures. Cool with water. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Container could potentially burst or be punctured upon mechanical impact,



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releasing flammable vapors. **Fire-Fighting Procedures:** Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. **Special Protective Actions:** Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. **Recommended Equipment:** See section 8 for specifics on protective personal equipment (PPE). **Personal Precautions:** Avoid breathing vapors. Ventilate area. **Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. **Methods and Materials for Containment and Cleaning Up:** Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 7: HANDLING AND STORAGE

General: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally. **Ventilation Requirements:** Use in a well-ventilated place. **Storage Room Requirements:** Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored. **Skin Protection:** Use solvent-resistant protective gloves for prolonged or repeated contact. **Respiratory Protection:** Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use an approved airline respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits. **Appropriate Engineering Controls:** Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m ³)	OSHA STEL (ppm)	OSHA STEL (mg/m ³)	OSHA Tables Z 1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m ³)	NIOSH STEL (ppm)	NIOSH STEL (mg/m ³)	NIOSH Carcinogen
PETROLEUM GASES	500	2000			1							
ETHYLENE GLYCOL MONOBUTYL ETHER	50	240			1		1	5	24			
ISOPROPYL ALCOHOL	400	980			1			400	980	500	1225	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DENSITY: 7.81 lb./gal.
DENSITY VOC: 0.98 lb./gal.
%VOC: 12.51%
APPEARANCE: Foam, cloudy white liquid
FRAGRANCE: Mint
ODOR THRESHOLD: N/A
pH: 13
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: (H2O = 1) 0.936
MELTING/FREEZING POINT: N/A
HIGH BOILING POINT: N/A
LOW BOILING POINT: N/A
FLASH POINT: Below 73°
LOWER EXPLOSION LEVEL: N/A
UPPER EXPLOSION LEVEL: N/A
EVAPORATION RATE: Slower than ether.
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY: Slower than ether.



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SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable under normal storage conditions. **Conditions to Avoid:** High temperatures. Direct sunlight. Dropping containers may cause bursting. **Incompatible Materials:** Avoid strong oxidizers, reducers, acids, and alkalis. **Hazardous Reactions/Polymerization:** None known. **Hazardous Decomposition Products:** May include carbon dioxide, carbon monoxide, and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation: No data available. **Serious Eye Damage/Irritation:** No data available. **Carcinogenicity:** No data available. **Germ Cell Mutagenicity:** May cause genetic defects. **Reproductive Toxicity:** No data available. **Respiratory/Skin Sensitization:** No data available. **Specific Target Organ Toxicity - Single Exposure:** No data available. **Specific Target Organ Toxicity - Repeated Exposure:** No data available. **Aspiration Hazard:** No data available.

ACUTE TOXICITY--

000067-63-0 ISOPROPYL ALCOHOL:

LC50 (rat): 17000 ppm (4-hour exposure); cited as 12000 ppm (8-hour exposure) (18)
LD50 (oral, male rat): 4710 mg/kg cited as 6.0 mL/kg (19)
LD50 (oral, mouse): 3600 mg/kg (20, unconfirmed)
LD50 (dermal, rabbit): 12870 mg/kg (cited as 16.4 mL/kg) (14)

000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER:

LC50 (female rat): 450 ppm (4-hour exposure) (2)
LC50 (male rat): 486 ppm (4-hour exposure) (2)
LD50 (oral, male weanling rat): 3000 mg/kg (1)
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)
LD50 (oral, yearling male rat): 560 mg/kg (1)
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1)
LD50 (oral, male mouse): 1230 mg/kg (1)
LD50 (oral, rabbit): 320 mg/kg (1)
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No data available. **Persistence and Degradability:** 000067-63-0 ISOPROPYL ALCOHOL-Readily biodegradable; 000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER-Readily biodegradable. **Bio-Accumulative Potential:** No data available. **Mobility in Soil:** No data available. **Other Adverse Effects:** No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INSTRUCTIONS: Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORT INFORMATION

CONTAINER SIZES: Aerosol Can
PROPER SHIPPING NAME: CLEANING COMPOUND
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: LIMITED QUANTITY

SECTION 15: REGULATORY INFORMATION

Petroleum Gases, Liquefied, Sweetened: 4% - 8% - SARA312,TSCA,OSHA; **000111-76-2 Ethylene Glycol Monobutyl Ether:** 2% - 5% - SARA313, CERCLA,SARA312,VOC,TSCA,ACGIH,OSHA; **0009016-45-9 Polyethylene Glycol Nonylphenyl Ether:** 1.0% - 2% - SARA312,TSCA; **000067-63-0 Isopropyl Alcohol:** 0.1% - 2% - SARA312,VOC,TSCA,ACGIH,OSHA; **0006834-92-0 Sodium Metasilicate:** 0.1% - 1.1% - SARA312,TSCA.



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SECTION 16: OTHER INFORMATION

GLOSSARY: ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TW- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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

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