



SAFETY DATA SHEET

Product: MARC 137 GONE CITRUS OVEN CLEANER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 137 GONE CITRUS OVEN CLEANER

SDS DATE: 05/02/16

SUPPLIER: Mid-American Research Chemical Corp.

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

PHONE: 402-564-7104 FAX: 403-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

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

RECOMMENDED USE: Cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable aerosol. Skin corrosion/irritation. Serious eye damage/eye irritation. Skin sensitization.

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **DANGER:** Extremely flammable aerosol. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

PRECAUTIONARY STATEMENT/PREVENTION/RESPONSE: Keep away from heat/sparks/open flames/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. Do not breathe mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye and face protection. Do not eat, drink or smoke when using this product. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 120°F. Dispose of contents/container in accordance with local, state and federal regulations.



ENVIRONMENTAL HAZARDS: Hazardous to the aquatic environment, acute and long-term hazard.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>
1, 2, 3-Propanetriol	56-81-5	2.5 – 10%
Butane	106-97-8	2.5 – 10%
Potassium Hydroxide	1310-58-3	2.5 – 10%
Citrus Terpenes	94266-47-4	1 – 2.5%
Propane	74-98-6	1 – 2.5%
Cocoyl Diethanolamide	68603-42-9	0.1 – 1%
EDTA Tetrasodium Salt	64-02-8	0.1 – 1%

Other components below reportable levels. 80 – 90%

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

SKIN: Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

INGESTION: Call a physician or poison control center immediately. Rinse mouth. **DO NOT INDUCE VOMITING!** If vomiting occurs,



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keep head low so that stomach content doesn't get into the lunge.

INHALATION: Move person to fresh air. Call a physician if symptoms develop or persist or if you feel unwell.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

INDICATION OF IMMEDIATED MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

GENERAL INFORMATION:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIAL PROTECTIVE EQUIPMENT/ FIRE FIGHTING PRECAUTIONS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

FIRE-FIGHTING EQUIPMENT/ INSTRUCTIONS:

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

SPECIFIC METHODS:

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed

HAZARDOUS DECOMPOSITION PRODUCTS: No hazardous decomposition products are known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

PROTECTIVE EQUIPMENT: See Section 8 Exposure Controls/Personal Protection.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: See Emergency Procedures above. Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Cover with plastic sheet to prevent spreading. Absorb with vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.



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ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Pressurized container. Do not pierce or burn even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Level 1 Aerosol.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN! CONTENTS UNDER PRESSURE!**

STORAGE: Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerator or crush. Do not handle or store near an open flame, heat, or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of SDS).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

COMPONENTS	TYPE	VALUE	FORM
1, 2, 3-Propanetriol (CAS 56-81-5)	PEL	5mg/m3	Respirable fraction.
Propane (74-98-6)	PEL	15 mg/m3 1800 mg/m3 1000 ppm	Total dust.

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE
Butane (CAS 106-97-8)	STEL	1000 ppm
Potassium Hydroxide (CAS1310-58-3)	Ceiling	2mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Potassium Hydroxide (CAS1310-58-3)	TWA	2mg/m3
Propane (74-98-6)	TWA	1800 mg/m3 1000 ppm

Biological limit values: No biological exposure limits noted for the ingredient(s).

ENGINEERING CONTROLS/

VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other reengineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

RESPIRATORY PROTECTION: If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.



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- EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield. Face shield is recommended.
- SKIN PROTECTION/PROTECTIVE GLOVES:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Also wear thermal protective clothing, when necessary. Eyewash facilities and emergency shower must be available when handling this product.
- WORK HYGIENIC PRACTICES:** **When using do not smoke.** Observe good industrial hygiene practices such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated clothing should not be allowed out of the workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-

PHYSICAL STATE:	Liquid/Aerosol.
COLOR:	Not available.
ODOR:	Not available.
ODOR THRESHOLD:	Not available.
pH:	Not available.
MELTING/FREEZING POINT:	Not available.
BOILING POINT:	233.07°F (111.71°C) estimated.
FLASH POINT/METHOD USED:	-156.0°F (-104.4°C) Propellant estimated.
EVAPORATION RATE:	Not available.
FLAMMABILITY (solid, gas):	Not available
FLAMMABILITY LIMITS:	LOWER: Not available UPPER: Not available
EXPLOSIVE LIMITS:	LOWER: Not available UPPER: Not available.
VAPOR PRESSURE (mmHg):	23.06 psig @ 70° F estimated
VAPOR DENSITY (AIR = 1):	Not available
RELATIVE DENSITY:	Not available
SPECIFIC GRAVITY (H₂O = 1):	0.951 estimated.
SOLUBILITY IN WATER:	Not available
PARTITION COEFFICIENT, n-OCTANOL/WATER:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

OTHER INFORMATION:

DENSITY:	0.95 g/cm ³ estimated
EXPLOSIVE PROPERTIES:	Not explosive.
FLAMMABILITY CLASS:	Flammable IB estimated
HEAT OF COMBUSTION (NFPA30B):	3.49 KJ/g estimated
OXIDIZING PROPERTIES:	Not oxidizing.
PERCENT VOLATILE:	91.06% estimated
VOC (Weight %):	13.3% estimated



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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Avoid temperatures exceeding flash point. Contact with incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No hazardous decomposition products are known.

HAZARDOUS POLYMERIZATION: Does not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** NA

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

EYES: Causes serious eye damage.

SKIN: Causes severe skin burns. May cause an allergic skin reaction.

INGESTION: Causes digestive tract burns.

INHALATION: May cause irritation to the respiratory system.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: May cause an allergic skin reaction.

COMPONENTS	SPECIES	TEST RESULTS
1,2,3-Propanetriol (CAS 56-81-5)		
ACUTE		
Dermal LD50	Guinea pig	45 ml/kg, Days
Inhalation LC50	Rat	4655 mg/l, 7 Hours
Oral LD50	Guinea pig	>=10000 mg/kg
	Mouse	23000 mg/kg
	Rat	20.81 ml/kg
		18300 mg/kg
Butane (CAS106-97-8)		
ACUTE		
Inhalation LC50	Mouse	1237 mg/l, 120 Minutes
		52%, 120 Minutes
	Rat	1355 mg/l



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EDTA Tetrasodium Salt (CAS 64-02-8)

ACUTE

Oral
LD50 Rat 1658 mg/kg

Potassium Hydroxide (CAS 1310-58-3)

ACUTE

Oral
LD50 Rat 333 mg/kg

Propane (CAS 74-98-6)

ACUTE

Inhalation
LC50 Mouse 1237 mg/l, 120 Minutes
52%, 120 Minutes
Rat 1355 mg/l
658 mg/l/4h

*Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/eye irritation: Causes serious eye damage.
Respiratory or skin sensitization
Respiratory sensitization: Not a respiratory sensitizer.
Skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cocoyl Diethanolamide (CAS 68603-42-9) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.
**Specific target organ toxicity-
Single exposure:** Not classified.
**Specific target organ toxicity-
Repeated exposure:** Not classified.
Aspiration hazard: Not an aspiration hazard.
Chronic effects: Prolonged exposure may cause chronic effects.



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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

COMPONENTS	SPECIES	TEST RESULTS
1,2,3-Propanetriol (CAS 56-81-5)		
Aquatic Fish	LC50 Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	51000 – 57000 mg/l, 96 Hours
EDTA Tetrasodium Salt (CAS 64-02-8)		
Aquatic Algae	IC50 Algae	1.01 mg/; 72 Hours
Fish	LC50 Bluegill (Lepomis macrochirus)	472 – 500 mg/l, 96 Hours
Potassium Hydroxide (CAS 1310-58-3)		
Aquatic Fish	LC50 Western mosquitofish (Gambusia affinis)	80 mg/l, 96 Hours

*Estimates for product may be based on additional component data not shown.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential:

Partition coefficient n-octanol / water (log kow)

1,2,3-Propanetriol	-1.76
Butane	2.89
Propane	2.36

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS: Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**WASTE FROM RESIDUES/
UNUSED PRODUCTS:**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).

CONTAMINATED PACKAGING: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.



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SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZE(S):	Aerosol Can (18 oz.)
PROPER SHIPPING NAME:	CLEANING COMPOUND
HAZARD CLASS:	N/A
ID NUMBER:	None
PACKING GROUP:	None
LABEL STATEMENT:	LIMITED QUANTITY

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (CFR 302.4):
Potassium Hydroxide: (CAS 1310-58-3) Listed

SARA 304 EMERGENCY RELEASE NOTIFICATION: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard categories	Immediate Hazard – Yes
	Delayed Hazard – No
	Fire Hazard – Yes
	Pressure Hazard – No
	Reactivity Hazard – No

SARA 302 extremely hazardous substance: Not listed.

SARA 311/312 Hazardous Chemical: No

SARA 313 (TRI reporting): Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA) Not regulated.



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US State Regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22 69502.3, subd.(a)):

Butane (CAS 106-97-8)
Cocoyl Diethanolamide (CCAS 68603-42-9)

US. Massachusetts RTK – Substance List

1,2,3-Propanetriol (CAS 56-81-5)
Butane (CAS 106-97-8)
Potassium Hydroxide (CAS 1310-58-3)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Law

1,2,3-Propanetriol (CAS 56-81-5)
Butane (CAS 106-97-8)
Potassium Hydroxide (CAS 1310-58-3)
Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2,3-Propanetriol (CAS 56-81-5)
Butane (CAS 106-97-8)
Potassium Hydroxide (CAS 1310-58-3)
Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8)
Potassium Hydroxide (CAS 1310-58-3)
Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US – California Proposition 65 CRT: Listed date/Carcinogenic substance

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012
Formaldehyde (50-00-0) Listed: January 1, 1988

US – California Proposition 65 CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On Inventory (yes/no)*</u>
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



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SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 3
Flammability = 2
Reactivity = 0
Other = -
Protection = X

REVISION DATE: 04/06/16

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.