



SAFETY DATA SHEET

Product: MARC 129 WATER-BASED DUST MOP TREATMENT

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 129 WATER-BASED DUST MOP TREATMENT**

SDS DATE: 01/04/2019

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: Dust mop treatment.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

Physical hazards Flammable aerosols Category 1, **Health hazards** Sensitization, skin Category 1, Aspiration hazard Category 1, **OSHA defined hazards** Not classified. **Signal word** Danger. **Hazard statement** Extremely flammable aerosol. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.



Precautionary statement. Prevention 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. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. **Response** If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. **Storage** Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. **Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations. Hazardous to the aquatic environment, acute Category 3 hazard. **Environmental hazards.** Hazardous to the aquatic environment, Category 3 long-term hazard. **Hazard(s) not otherwise classified (HNOC):** Combustible.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>%WT.</u>
White Mineral Oil	8042-47-5	20-40
Butane	106-97-8	2.5-10
Propane	74-98-6	2.5-10
D-Limonene	Mixture	1-2.5
Polyethylene Glycol Nonylphenol Ether	9016-45-9	0.1-1

Other components below reportable levels. 60-80

#: This substance has workplace exposure limit(s).

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

Composition comments: The full text for all R-phrases is displayed in Section 16 of SDS.

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. Immediately call a Poison Control Center/physician if irritation develops and persists.

SKIN: Take off immediately all contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

INGESTION: Rinse mouth.

INHALATION: Remove to person to fresh air. Call a physician if symptoms develop or persist.

MOST IMPORTANT SYMPTOMS/

EFFECTS, ACUTE & DELAYED: May cause allergic skin reaction. Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

INDICATION OF IMMEDIATE MEDICAL

ATTENTION & SPECIAL TREATMENT NEEDED: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

GENERAL INFORMATION: Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.



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SECTION 5: FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:** Alcohol resistant foam. Water fog. Dry chemicals. Carbon dioxide (CO₂).
- UNSUITABLE EXTINGUISHING MEDIA:** Do not use water jet as an extinguisher, as this will spread the fire.
- SPECIAL FIRE FIGHTING PROCEDURES:** 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. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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 of 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. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment and clothing during clean-up. Avoid breathing gas. 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 if SDS.
- PROTECTIVE EQUIPMENT:** See Section 8 Exposure Controls/Personal Protection.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** See Emergency Procedures above. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). For waste disposal see Section 13 of SDS.
- 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

- PRECAUTIONS FOR SAFE 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. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid breathing gas. Avoid prolonged or repeated contact with skin. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
- OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN! CONTENTS UNDER PRESSURE!**
- STORAGE:** 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 well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of SDS). Level 1 Aerosol (NFPA 30B).



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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
Propane (74-98-6)	PEL	1800 mg/m3 1000 ppm	

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE
Butane (CAS 106-97-8)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

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

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

APPROPRIATE ENGINEERING CONTROLS: Explosion-proof general and local exhaust ventilation.

VENTILATION: Good general ventilation

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

EYE/FACE PROTECTION: Face shield is recommended. Wear safety glasses with side shields (or goggles).

SKIN PROTECTION/PROTECTIVE GLOVES: Wear chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Also wear thermal protective clothing, when necessary.

WORK HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, 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 work clothing should not be allowed out of the workplace.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Milky.
PHYSICAL STATE:	Aerosol, Gas.
COLOR:	White.
ODOR:	Citrus
ODOR THRESHOLD:	Not available.
pH:	Not available.
MELTING/FREEZING POINT:	Not available.
INITIAL BOILING POINT/RANGE:	Not available.
FLASH POINT/METHOD USED:	Not available.
EVAPORATION RATE:	Not available.
FLAMMABILITY (solid, gas):	Not available
FLAMMABILITY LIMITS:	Not available
VAPOR PRESSURE (mmHg):	Not available.
VAPOR DENSITY (AIR = 1):	Not available
SPECIFIC GRAVITY (H2O = 1):	0.960
SOLUBILITY IN WATER:	Not available



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PARTITION COEFFICIENT, n-OCTANOL/WATER: Not available
AUTO-IGNITION TEMPERATURE: Not available
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: Not available

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.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible material.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents. Fluorine. Chlorine. Nitrates.

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

ROUTES OF EXPOSURE:

EYES: Direct contact with eyes may cause temporary irritation.

SKIN: Causes mild skin irritation. May cause an allergic skin reaction.

INGESTION: Expected to be a low ingestion hazard.

INHALATION: Not available.

ACUTE HEALTH HAZARDS: May cause allergic skin reaction. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

CHRONIC HEALTH HAZARDS: N/A

SIGNS & SYMPTOMS: Rash. May cause allergic skin reaction. Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis. Skin allergies.

PRODUCT	SPECIES	TEST RESULTS
18 OZ DUST MOP M-129 LB 12PK (CAS Mixture)		

ACUTE <i>Dermal</i> LD50	Rat	78652 mg/kg
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<i>Inhalation</i> LC50	Rat	4104 mg/l/4h
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COMPONENTS	SPECIES	TEST RESULTS
Butane (CAS106-97-8)		

ACUTE <i>Inhalation</i> LC50	Mouse	1237 mg/l, 120 Minutes
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52%, 120 Minutes

	Rat	1355 mg/l
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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

White Mineral Oil (CAS 8042-47-5)

ACUTE

Dermal

LD50	Rabbit	>2000 mg/kg, 24 Hours
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Inhalation

LC50	Rat	2.18 mg/l, 4 Hours
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Oral

LD50	Rat	5000.0001 mg/kg
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*Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation:	Causes mild skin irritation.
Serious eye damage/eye irritation:	Direct contact with eyes may cause temporary irritation.
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:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): 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 likely, due to the form of the product.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

PRODUCT	SPECIES		TEST RESULTS
18 OZ DUST MOP M-129 LB 12 PK (CAS Mixture)			
Aquatic			
Algae	IC50	Algae	28058 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2069 mg/L, 48 Hours
Fish	LC50	Fish	12119 mg/L, 96 Hours
COMPONENTS	SPECIES		TEST RESULTS
Polyethylene Glycol Nonylphenol Ether (CAS 9016-45-9)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	12.2 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1 – 1.8 mg/l, 96 Hours

White Mineral Oil (CAS 8042-47-5)



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Aquatic
Fish LC50 Fish 10000.0001, 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: No data available.

Partition coefficient n-octanol / water (log Kow)
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: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

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

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

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 (TOXIC SUBSTANCE CONTROL ACT): Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):
Not 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)



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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 Accidental Release Prevention (40 CFR 68.130)
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK – Substance List
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

US. New Pennsylvania Worker and Community Right-to-Know Law
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

US. Rhode Island RTK
Butane (CAS 106-97-8)
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.

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).

SECTION 16: OTHER INFORMATION

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

REVISION DATE: 01/04/2019
N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.