



SAFETY DATA SHEET

Product: **MARC 105 GERMICIDAL MULTI-PURPOSE CLEANER WITH FOAM ACTION** Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 105 GERMICIDAL MULTI-PURPOSE CLEANER WITH FOAM ACTION**

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: Disinfectant Foaming Cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol Category 2, Liquefied Gas, Eye Irritant Category 2b.



SIGNAL WORD AND HAZARD STATEMENTS - 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
2-Butoxyethanol	111-76-2	5-10%
Propane/n-Butane	68476-86-8	3-7%
Isopropyl Alcohol	67-63-0	1-5%
Ethylenediaminetetraacetic Acid (EDTA)	60-00-4	.5-1.5%
Sodium Hydroxide	1310-58-3	.5-1.5%

SECTION 4: FIRST AID MEASURES

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 immediately.

SKIN: Immediately wash skin with soap and water for 15 minutes. Seek medical attention if irritation develops.

INGESTION: **DO NOT INDUCE VOMITING** unless directed to do so by medical authority. Immediately rinse mouth with water. Seek immediate medical attention.

INHALATION: Move to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing, qualified personnel should administer artificial respiration. Seek medical attention if irritation persists.

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 regimen. 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: Dry chemical, carbon dioxide, foam, water spray for cooling.

UNSUITABLE EXTINGUISHING MEDIA: N/A



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- 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. Avoid breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep away from heat, sparks, open flames and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.
- HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

- EMERGENCY PROCEDURES:** **SPILL:** Absorb spill with non-combustible material such as vermiculite, sand or earth.
- PROTECTIVE EQUIPMENT:** Refer to Section 8 Exposure Controls/Personal Protection.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Same as Emergency Procedures above.
- WASTE DISPOSAL:** Dispose in accordance with federal, state, and local regulations. Do not reuse, puncture, or incinerate container. Wrap container and place in trash collection.
- RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 7: HANDLING AND STORAGE

- GENERAL HANDLING/STORAGE:** Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 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, strong alkalis, strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
2-Butoxyethanol	50ppm	20ppm
Propane/n-Butane	1000ppm	1000ppm
Isopropyl Alcohol	500ppm	400ppm
Ethylenediaminetetraacetic Acid (EDTA)	15 mg/m3	Not Established
Sodium Hydroxide	2 mg/m3	2 mg/m3

- ENGINEERING CONTROLS/VENTILATION:** Good ventilation and local exhaust recommended.
- RESPIRATORY PROTECTION:** Not required under normal use. If exposure levels are exceeded than organic vapor cartridge respirator or SCBA will be needed.
- EYE PROTECTION:** Safety glasses are recommended.
- SKIN PROTECTION/PROTECTIVE GLOVES:** Chemical resistant gloves are recommended.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N/A
- WORK HYGIENIC PRACTICES:** Wash hands thoroughly after handling. Handle according to established industrial hygiene and safety practices. Wash hands before eating, drinking or smoking.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE-
PHYSICAL STATE:** Foam, Aerosol
- COLOR:** White
- ODOR:** Citrus scent, moderate ammonia odor.
- ODOR THRESHOLD:** N/D



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pH:	12.3
SOLIDS (%):	3%
FREEZING POINT:	<32°F (0°C)
BOILING POINT:	>212°F (100°C)
FLASH POINT/METHOD USED:	N/D
EVAPORATION RATE:	<1
FLAMMABILITY (solid, gas):	Flammable Aerosol
FLAMMABILITY LIMITS:	N/D UPPER: N/D LOWER: N/D
VAPOR PRESSURE (mmHg):	17.5 @ 77°F (25°C)
VAPOR DENSITY (AIR = 1):	<1
SPECIFIC GRAVITY (H ₂ O = 1):	1.00 @ 77°F (25°C)
SOLUBILITY IN WATER:	100%
PARTITION COEFFICIENT, n-OCTANOL/WATER:	N/D
VOLATILITY INCLUDING WATER (%)I	>80%
VOLATILE ORGANIC COMPOUNDS (VOC):	16%
DIELECTRIC STRENGTH (Volts):	N/A
AUTO-IGNITION TEMPERATURE:	N/D
DECOMPOSITION TEMPERATURE:	N/D
VISCOSITY:	N/D

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Temperatures greater than 122°F and sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids, strong alkalis, strong oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon.

POSSIBLE HAZARDOUS REACTIONS: None known.

HAZARDOUS POLYMERIZATION: None known. CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **2-Butoxyethanol** (111-76-2) LD50 (Oral, Rat) 470 mg/kg; LC50 (Inhalation, Rat, 4hr) 450ppm; LD50 (Dermal, Rabbit 220 mg/kg **Isopropyl Alcohol** (67-63-0) LD50 (Oral, Rat) 5045 mg/kg; LD50 (Oral, Rabbit) 5045 mg/kg; LD50 (Dermal, Rabbit) 12,800 mg/kg; LC50 (Inhalation, Rat, 8hr) 16,000 ppm

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes mild irritation.

SKIN: May cause mild irritation, dryness with prolonged or repeated contact.

INGESTION: May cause gastrointestinal irritation, abdominal cramps.

INHALATION: Irritant. Avoid breathing spray mist. May cause irritation to respiratory tract.

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

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: **Isopropyl Alcohol** (67-63-0) LC50 (Fathead Minnow, 96 hrs) 100,000 mg/L



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BIODEGRADABILITY: Component or components of this product are not 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 reuse, puncture, or incinerate container. Wrap container and place in trash collection.

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): AEROSOLS (18 ozs.)
PROPER SHIPPING NAME: DEODORANTS OR DISINFECTANTS
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: LIMITED QUANTITY

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

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

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

SARA 311/312 HAZARD CATEGORIES:

SARA 313 REPORTABLE INGREDIENTS: 2-Butoxyethanol (111-76-2)

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

CLEAN WATER ACT: None.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if swallowed or absorbed through skin. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Contents under pressure. Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Never throw container into fire or incinerator. EPA Reg. No. 44446-23.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings:

Health =	1
Flammability =	0
Reactivity =	1
Other =	-
Protection =	A

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.