



SAFETY DATA SHEET

Product: **MARC 109 GLASS CLEANER**

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 109 GLASS CLEANER**

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: 402-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

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

RECOMMENDED USE: Glass Cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Liquefied Gas

HAZARD STATEMENT(S): WARNING: Contains gas under pressure; May explode if heated. This product contains the following percentage of chemicals of unknown toxicity: 0%. **PRECAUTIONARY STATEMENTS:** Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place.



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	1-5%
Ethyl Alcohol	64-17-5	1-5%
Propane/N-Butane	68476-86-8	3-7%

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with water for 15-20 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately if eye irritation persists.

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 medical attention if irritation persists.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing, qualified personnel should administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

ACUTE HEALTH HAZARDS: None known.

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, alcohol foam, and water spray or fog.

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. Use water spray only to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120°F may cause bursting.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.



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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: 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.

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 oxidizers, Alkalies, Acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
2-Butoxyethanol	50ppm	20ppm
Ethyl Alcohol	1000ppm	1000ppm
Propane/n-Butane	1000ppm	1000ppm

ENGINEERING CONTROLS/VENTILATION: Ambient ventilation suitable, forced ventilation should not be required.

RESPIRATORY PROTECTION: Not required with normal use.

EYE PROTECTION: Safety glasses are recommended.

SKIN PROTECTION/PROTECTIVE GLOVES: N/A

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Handle according to established industrial hygiene and safety practices. Don't eat, drink or smoke in work area.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE- PHYSICAL STATE: Foam

COLOR: White

ODOR: Pleasant scent.

ODOR THRESHOLD: N/D

pH: 9.6

FREEZING POINT: N/D

BOILING POINT: >212°F (100°C)

FLASH POINT/METHOD USED: N/D

EVAPORATION RATE: <0.8 (Slow)

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



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SPECIFIC GRAVITY (H₂O = 1): 0.99
SOLUBILITY IN WATER: 100%
PARTITION COEFFICIENT, n-OCTANOL/WATER: N/D
VOLATILITY INCLUDING WATER (%): 100%
VOLATILE ORGANIC COMPOUNDS (VOC): 8.5%
AUTO-IGNITION TEMPERATURE: N/A
DECOMPOSITION TEMPERATURE: N/A
VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: N/A

STABILITY: Stable

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

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers, Alkalies, Acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: 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; Inhalation rat LC50 (Inhalation, Rat, 4hr) 450ppm; LD50 (Dermal, Rabbit) 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: May cause irritation.

SKIN: May cause mild irritation, localized defatting.

INGESTION: Not a likely route of exposure under normal product handling conditions.

INHALATION: Causes dizziness if inhaled directly or exposed to excessive amounts.

ACUTE HEALTH HAZARDS: None known.

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: **Ethyl Alcohol** (64-17-5) LC50 (Fish, 96hr) 12,900-15,300 mg/L; LC50 (Bacteria, 24hr) 11,200 mg/L; EC50 (Bacteria, 5-30 min) 34,900 mg/L **2-Butoxyethanol** (111-76-2) Toxic to aquatic life only in high concentrations, lethal concentrations not available.

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.



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SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): AEROSOLS (19 ozs.)
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

U.S. FEDERAL REGULATIONS

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

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): None

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: 2-Butoxyethanol (111-76-2) .5-1.5%

CLEAN WATER ACT: None.

STATE REGULATIONS: California Proposition 65: None

INTERNATIONAL REGULATIONS: 2-Butoxyethanol (111-76-2) EU (EINECS), Japan (ENCS), Australia (AICS), Canada (WHMIS), DSSL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS).

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1
Flammability = 1
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.