



SAFETY DATA SHEET

Product: MARC 162 MULTI-PURPOSE NON-CONDUCTIVE SURFACE CLEANER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 162 MULTI-PURPOSE NON-CONDUCTIVE SURFACE CLEANER

SDS DATE: 4/13/15

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: marc@marc1.com **WEBSITE:** www.marc1.com

RECOMMENDED USE: Multipurpose Cleaner. May be used on a wide variety of surfaces.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol. Liquefied Gas. Irritant (eye) (skin)

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **WARNING:** Flammable Aerosol. Contains gas under pressure. May explode if heated.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

LIKELY ROUTES OF EXPOSURE: Skin, Eyes, Ingestion, Inhalation.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
2-Butoxyethanol	111-76-2	1-5%
Ethyl Alcohol	64-17-5	10-30%
Propane/n-Butane	68476-86-8	3-7%

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

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 advice or attention.

SKIN: Immediately wash with soap and water. Seek medical attention if irritation develops.

INGESTION: **DO NOT INDUCE VOMITING** unless directed by medical authority. Immediately rinse mouth with water. Seek medical attention if irritation persists.

INHALATION: Move victim to fresh air. If breathing is difficult, administer oxygen. If not breathing 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.

GENERAL ADVICE: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).



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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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section 8 for proper Personal Protective Equipment.

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.

ACCIDENTAL RELEASE MEASURES: Same as Emergency Procedures.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/

STORAGE: Protect from sunlight. Store in well ventilated place. Do not expose to temperatures exceeding 50°C/120°F. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks, open flames, and hot surfaces. No Smoking.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN!! CAREFULLY READ ENTIRE LABEL BEFORE USE!**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
2-Butoxyethanol	111-76-2	1-5%	50 ppm	20 ppm
Ethyl Alcohol	64-17-5	10-30%	1000 ppm	1000 ppm
Propane/n-Butane	68476-86-8	3-7%	1000 ppm	1000 ppm

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

MECHANICAL: N/A

RESPIRATORY PROTECTION: Not required under normal use.

HMIS: See Section 16.

EYE PROTECTION: Safety glasses always recommended when using chemicals.

SKIN PROTECTION/PROTECTIVE GLOVES: N/A.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Full body protective clothing when fighting fires. .

WORK HYGIENIC PRACTICES: Follow normal hygiene practices. Wash hands thoroughly with soap and water before eating, drinking or smoking.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-	Foam
COLOR:	White
PHYSICAL STATE:	Liquid
FORM:	Foam
ODOR:	Pleasant Odor
pH:	9.6
SOLUBILITY IN WATER:	100%
SPECIFIC GRAVITY: (H ₂ O = 1)	0.99
MELTING/FREEZING POINT:	N/D
BOILING POINT:	F: >212° F C: >100°C
FLASH POINT(METHOD USED:TCC)	N/D
FLASH BACK:	N/A
EVAPORATION RATE:	>0.8 (slow)
FLAMMABILITY (HOC):	Flammable Aerosol.
FLAMMABILITY LIMITS:	UPPER: N/D LOWER: N/D
VAPOR PRESSURE (mmHg):	17.5 @ F: 77 C: 25
VAPOR DENSITY:	1
PARTITION COEFFICIENT, n-OCTANOL/WATER:	N/D
AUTO-IGNITION TEMPERATURE:	N/D
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.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **2-Butoxyethanol** (111-76-2) LD50 (Oral, Rat) 470 mg/kg; Inhalation rat LC50 (inhalation, Rat, 4hr) 450 ppm; LD50 (Dermal, Rabbit) 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals. **Ethyl Alcohol** (64-17-5) LC50 (inhalation, mouse, 4hr) 39 gr/m³, LC50 (inhalation, rat 10hr) 20,000 ppm; LD50 (oral, mouse) 3450 mg/kg; LD50 (oral, rabbit) 6300 mg/kg; LD50 (oral, rabbit) 7060 mg/kg.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Causes irritation, burning, redness, tearing.

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.

MEDICAL CONDITION AGGRAVATED: None known.



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ACUTE HEALTH HAZARDS: None known.

CHRONIC HEALTH HAZARDS: 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 INSTRUCTIONS: Dispose of in accordance with federal, state, and local regulations.

RCRA HAZARD CLASS: Not considered as hazardous 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): Aerosol Can (19 oz.)

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 OF 1986): N/A

SARA 311/312 HAZARD CATEGORIES: None.

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

CLEAN WATER ACT: None.



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STATE REGULATIONS: California's Proposition 65: None

INTERNATIONAL REGULATIONS: 2-Butoxyethanol (111-76-2) (EINECS), Japan (ENCS), Australia (AICS), Canada (WHMIS), DSCG (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: 4/13/15

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.