



SAFETY DATA SHEET

Product: MARC 104 BREAK-A-WAY

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 104 BREAK-A-WAY

SDS DATE: 11/26/13

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: Lubricant

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Irritant (eye) (skin)

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **WARNING:** Harmful or fatal if swallowed. Keep out of reach of children.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>TLV</u>
2-Butoxyethanol	111-76-2	20ppm
Methylene Chloride	75-09-2	50ppm

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes. Get medical attention.

SKIN: Wash thoroughly with soap and warm water. Remove contaminated clothing and launder before reuse. Call physician if irritation persists.

INGESTION: **DO NOT INDUCE VOMITING.** Call a physician or medical treatment facility at once.

INHALATION: Remove victim to fresh air. If breathing is difficult or unconscious, administer oxygen. If not breathing administer artificial respiration. See medical attention if irritation persists.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, foam, or Carbon Dioxide (CO₂).

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. Combustion by products include phosgene and hydrogen chloride gases.

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Oxides of carbon, chlorine, hydrogen chloride, phosgene.



SAFETY DATA SHEET

Product: MARC 104 BREAK-A-WAY

Form R04132

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Remove sources of ignition such as pilot lights. Material is heavier than air and can settle in low lying areas in flammable concentrations, ventilate area. Product will undergo rapid evaporation. Use absorbent on spill sweep to clean. Small releases may be wiped up with wiping material. Dispose of residue in accordance with federal, state and local guidelines. Offer drums for recycling. Do not reuse empty container. Smaller containers should be rinsed and placed in trash collection.

PROTECTIVE EQUIPMENT: Use personal protective devices as stated in Section 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as emergency procedures. Consult with local and state agencies for disposal of filled containers.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Do not use or store near heat or open flame. Store in cool dry place. Follow all label instructions. Vapors may accumulate in low lying areas.

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>TLV</u>
2-Butoxyethanol	111-76-2	20ppm
Methylene Chloride	75-09-2	50ppm

ENGINEERING CONTROLS/

VENTILATION: Material is flammable and heavier than air. Material may concentrate in low lying areas. Normal, forced ventilation required to meet TLV requirements. Local exhaust ventilation is generally preferred.

MECHANICAL: Provide sufficient mechanical general and/or local exhaust for ventilation and maintain exposure below TLV's.

RESPIRATORY PROTECTION: Use only in well ventilated areas. If exposure levels are exceeded then organic vapor cartridge respirator or SCBA will be needed. 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.

EYE PROTECTION: Safety glasses are always recommended when using chemicals.

SKIN PROTECTION/PROTECTIVE GLOVES: Impervious gloves such as neoprene or solvex can be used.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious clothing as needed to prevent skin contact. Eyewash station and safety shower.

WORK HYGIENIC PRACTICES: Wash hands after handling.



SAFETY DATA SHEET

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-
PHYSICAL STATE/COLOR: Viscous, hazy liquid.
ODOR: Chlorinated solvent odor.
pH: N/A
SOLUBILITY IN WATER: 17%
SPECIFIC GRAVITY: 1.2
MELTING POINT: N/A
FREEZING POINT: 30°F
BOILING POINT: >104
FLASH POINT/METHOD USED: Not tested.
EVAPORATION RATE: >2
FLAMMABILITY LIMITS: N/A **UPPER:** N/A **LOWER:** N/A
VAPOR PRESSURE (mmHg): >100
VAPOR DENSITY (AIR = 1): >1
**PARTITION COEFFICIENT,
n-OCTANOL/WATER:** N/A
AUTO-IGNITION TEMPERATURE: N/A
DECOMPOSITION TEMPERATURE: N/A
VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None

STABILITY: Stable

CONDITIONS TO AVOID: Temperatures greater than 120°F, excessive heat, hot surfaces, open flames, sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers and coatings.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Oxides of carbon, chlorine, hydrogen chloride and phosgene.

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID (POLYMERIZATION): None known.

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Causes severe irritation, redness, tearing, pain, visual disturbance, may cause eye damage.

SKIN: Brief contact is not irritating. May cause irritation, localized defatting, redness, itching with prolonged or repeated contact. Can be absorbed through the skin with prolonged and widespread contact.

INGESTION: Causes nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edemas, absorption through the gastrointestinal tract. May produce symptoms of CNS depression ranging from consciousness to death.

INHALATION: Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system.



SAFETY DATA SHEET

Product: MARC 104 BREAK-A-WAY

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CARCINOGENICITY: OSHA: Yes ACGIH: A3 – Animal Carcinogen NTP: 2 – Anticipated
IARC: 2B – Possible OTHER: Prop65

TOXICITY TO ANIMALS: No expected to be toxic to aquatic life.

TOXICOLOGICAL INFORMATION: Methylene Chloride – 75-09-2: Oral LD50 1600 mg/kg (Rat); Inhalation LC50 52 gm/m3 (Rat).
Reproductive Toxicity: Has been linked to spontaneous abortions in humans.

SECTION 12: ECOLOGICAL INFORMATION

2-Butoxyethanol – 111-76-2 – LC50/96-hour values for fish are over 100 mg/l.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with all local, state and federal agencies. Offer drums for recycling. Do not reuse empty container. Smaller containers should be rinsed and placed in trash collection.

RCRA STATUS: Waste solvent likely considered U080 (Methylene Chloride), 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 (18 oz.)
PROPER SHIPPING NAME: LUBRICATING OIL, GREASE OR PETROLEUM
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: ORM-D or 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): METHYLENE CHLORIDE, 75-09-2.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): Not Applicable

SARA 311/312 HAZARD CATEGORIES: 2-Butoxy ethanol – 111-76-2 – Acute health hazard, Chronic health hazard. METHYLENE CHLORIDE – 75-09-2; hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

SARA 313 REPORTABLE INGREDIENTS: METHYLENE CHLORIDE – 75-09-2, 2-Butoxy ethanol – 111-76-2, 1%.

STATE REGULATIONS: This product contains no known chemicals regulated by California's proposition 65.

Methylene Chloride – 75-09-2 – Right-To-Know acts for New York, Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, Michigan, New Jersey, Tennessee; Spill reporting for Massachusetts, New Jersey, Louisiana; Connecticut hazardous material survey; Illinois toxic substances disclosure to employee act.

California Prop 65: This product contains the following ingredients for which the state of California has found to cause cancer, birth defects, or other reproductive harm: Methylene Chloride – 75-09-2 2-Butoxy Ethanol - 111-76-2 – New Jersey's Worker and community Right To Know Act, Massachusetts' Right To Know Law, Pennsylvania's Right To Know Act.



SAFETY DATA SHEET

Product: MARC 104 BREAK-A-WAY

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INTERNATIONAL REGULATIONS: Methylene Chloride – 75-09-2 - The components of this product are listed on the chemical inventories of the following countries: Australia – Hazchem. Code 2Z, Poison Schedule S5, China, Europe (EINECS), Japan, Korea, Philippines, Canada.

WHMIS (Canada): Class D-1B material causing immediate and serious toxic effects (toxic). Class D-2A: Material causing other toxic effects (very toxic). DSCL (EEC): R22 – Harmful if swallowed. R38-irritating to skin. R41-Risk of serious damage to eyes. R45-May cause cancer. 2-Butoxy Ethanol – 111-76-2, Europe (EINECS), Japan (ENCS), Australia AICS), WHMIS (Canada) DXCL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS).

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2
Flammability = 1
Reactivity = 1
Other = -
Protection = B

REVISION DATE: 11/26/13

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.