



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: 03/02/2017

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: Dissolved Gas. Irritant (eye) (skin)



SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **WARNING:** Contains gas under pressure; may explode if heated. Harmful if swallowed or in contact with skin. Causes skin and serious eye irritation. Suspected of causing cancer. May cause respiratory irritation, drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, or 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 on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. If exposed or concerned: Get medical advice or attention. Dispose of contents and container in accordance with local, state, and national regulations. Do not eat, drink, or smoke when using this product. If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. Do not breathe fumes, mist or spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice if you feel unwell.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% WT.</u>
Methylene Chloride	75-09-2	60-100%
2-Butoxyethanol	111-76-2	1-5%
Carbon Dioxide	124-38-9	3-7%

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

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with water for 15 minutes while holding eyelids open. Seek immediate medical attention.

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

INGESTION: Rinse mouth with water. **DO NOT INDUCE VOMITING** unless directed by medical authority. Call a physician or medical treatment facility at once if irritation persists or you feel unwell.

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

ACUTE HEALTH HAZARDS: **EYES:** redness, tearing, blurred vision. **SKIN:** defatting and dermatitis. **INHALATION:** Irritation. **ORAL:** severe abdominal irritation, nausea, vomiting, diarrhea.

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



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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, carbon dioxide, alcohol foam, and water spray.

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. Avoid breathing smoke, fumes and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

HAZARDOUS DECOMPOSITION BY-PRODUCTS: Phosgene, Hydrogen Chloride Gases & Nitrogen and Carbon oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: **SPILL:** 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

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.

RCRA STATUS: Waste solvent likely considered F001, hazardous, 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. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Pressurized container. Do not pierce or burn, even after use.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN!! FOLLOW LABEL DIRECTIONS EXACTLY. VAPORS MAY COLLECT IN LOW LYING AREAS!**

INCOMPATIBILITY: May attack certain plastics, rubber, and coatings. Incompatible with strong oxidizers and caustics, chemically active metal, such as aluminum, magnesium powder, sodium, potassium, and lithium.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Methylene Chloride	25 ppm	50ppm
2-Butoxyethanol	50ppm	20ppm
Carbon Dioxide	5000ppm	5000ppm

**ENGINEERING CONTROLS/
VENTILATION:** Use only outdoors or in a well-ventilated area.

MECHANICAL: N/A

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits (Section 8) are exceeded.

EYE PROTECTION: Safety goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Protective gloves.



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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective clothing.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

ADDITIONAL MEASURES: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-
PHYSICAL STATE/COLOR: Dark Brown Spray
ODOR: Chlorinated solvent odor.
ODOR THRESHOLD: N/D
pH: N/A
SOLIDS: N/D
SOLUBILITY IN WATER: 0%
SPECIFIC GRAVITY: 1.2
MELTING POINT: N/D
FREEZING POINT: N/D
BOILING POINT: over 104°F
FLASH POINT/METHOD USED: N/D
EVAPORATION RATE: >2
FLAMMABILITY: Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)
FLAMMABILITY LIMITS: N/A **UPPER:** N/A **LOWER:** N/A
VAPOR PRESSURE (mmHg): >100
VAPOR DENSITY (AIR = 1): >2
PARTITION COEFFICIENT, n-OCTANOL/WATER: N/D
VOLATILITY INCLUDING WATER (%): (Kow): N/D
VOLATILE ORGANIC COMPOUNDS (VOC): 3.9%
DIELECTRIC STRENGTH (Volts): N/A
AUTO-IGNITION TEMPERATURE: N/A
DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None known.

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat. Sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): May attack certain plastics, rubber, and coatings. Incompatible with strong oxidizers and caustics, chemically active metal, such as aluminum, magnesium powder, sodium, potassium and lithium.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Phosgene, Hydrogen Chloride Gases, Nitrogen and Carbon oxides. .

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

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Methylene Chloride (75-09-2): LD50 (Oral, Rat) >2000 mg/kg. LD50 (Dermal Rat) >2000 mg/kg. LC50 (Inhalation, Rat) 52000 mg/m3. 2-Butoxyethanol (111-76-2) LD50 (Oral, Rat) 320 mg/kg; LC50 (Inhalation, Mice, 4hr) 700 ppm; LD50 (Dermal, Rabbit) 4400 mg/kg

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

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: Nausea, vomiting, headaches, abdominal pain, diarrhea, dizziness, tremor, drowsiness, pulmonary edemas, absorption



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through the gastrointestinal tract may produce symptoms of CNS depression ranging from unconsciousness 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: **EYES:** redness, tearing, blurred vision. **SKIN:** defatting and dermatitis. **INHALATION:** irritation. **ORAL:** severe abdominal irritation, nausea, vomiting, diarrhea.

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

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

CARCINOGENICITY: **OSHA:** Yes **ACGIH:** A3 – Animal Carcinogen **NTP:** Suspected
IARC: 2B – Possible **OTHER:** CA Prop 65

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not let residue come in contact with waterways in the United States. Methylene Chloride – This material may leach into groundwater. Will quickly evaporate in the soil and water and may biodegrade to a moderate extent in the water. Will not significantly bioaccumulate.

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: This material is toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with all local, state and federal agencies. Do not flame cut, braze, or weld. Empty container very hazardous!

RCRA STATUS: Waste solvent likely considered F001, 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: 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) Reportable Quantity = 1,000 lbs.

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

SARA 311/312 HAZARD CATEGORIES: Acute Health, Chronic Health.

SARA 313 REPORTABLE INGREDIENTS: Methylene Chloride – 75-09-2



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STATE REGULATIONS: This product contains chemical(s) Methylene Chloride – 75-09-2 known to the state of California Proposition 65 to cause birth defects or other reproductive harm and cancer.

Pennsylvania Right to Know: Methylene Chloride – 75-09-2; Massachusetts Right to Know: Methylene Chloride – 75-09-2; New Jersey Right to Know: Methanol – 67-56-1

INTERNATIONAL REGULATIONS: All components are listed or exempted.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 3
Flammability = 1
Reactivity = 0
Other = -
Protection = B

REVISION DATE: 03/02/2017

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.