



SAFETY DATA SHEET

Product: MARC 97-LM LIQUID ICE MELTER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 97-LM LIQUID ICE MELTER

SDS DATE: 08/04/16

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: Ice Melter.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION:

Acute Toxicity 4 (oral)
Eye Irritant 2B
STOT RE 2



SIGNAL WORD/ HAZARD STATEMENTS: **WARNING:** Harmful if swallowed. Causes eye irritation. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

PRECAUTIONARY STATEMENTS: Do not breathe mist, spray, vapors. Wash hands, forearms, and exposed areas thoroughly after handling. Do not eat, drink or smoke when using this product. **IF SWALLOWED:** Rinse mouth. Call a doctor or **POISON CENTER** if you feel unwell. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical advice/attention if irritation persists or if you feel unwell. Dispose of contents/container according to local, regional, national and international regulations.

OTHER HAZARDS: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

UNKNOWN ACUTE TOXICITY (GHS-US): No data available.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>PERCENT</u>
Ethylene glycol	107-21-1	30% - 50%
Isopropanol	67-63-0	2% - 7%

Percentage of composition has been withheld as a trade secret.



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SECTION 4: FIRST AID MEASURES

FIRST-AID MEASURES GENERAL: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

EYES: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

SKIN : Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

INGESTION: **DO NOT INDUCE VOMITING!** Rinse mouth. Immediately call a POISON CENTER or doctor/ physician.

INHALATION: Move person to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists or if you feel unwell.

MOST IMPORTANT SYMPTOMS &/ EFFECTS, BOTH ACUTE & DELAYED: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Causes eye irritation.

AFTER INHALATION: May cause respiratory irritation.

AFTER SKIN CONTACT: May cause skin irritation.

AFTER EYE CONTACT: May cause eye irritation.

AFTER INGESTION: Harmful if swallowed.

CHRONIC SYMPTOMS: May cause damage to organs through prolonged or repeated exposure.

INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED: If you feel unwell, seek medical advice (show label where possible).

NOTES TO PHYSICIAN: N/A

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

SPECIAL FIRE FIGHTING PROCEDURES

FIRE-FIGHTING EQUIPMENT: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Do not enter fire area without proper protective equipment, including respiratory protection.

UNUSUAL FIRE AND EXPLOSION HAZARDS: **FIRE HAZARD:** Not considered flammable but may burn at high temperatures. **EXPLOSION HAZARD:** Product is not explosive.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO₂).

OTHER INFORMATION: Refer to Section 9 for flammability properties.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ PERSONAL PRECAUTIONS: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

NON-EMERGENCY PERSONNEL: PROTECTIVE EQUIPMENT: Use appropriate personal protection equipment (PPE).
EMERGENCY PROCEDURES: Evacuate unnecessary personnel.

EMERGENCY RESPONDERS: PROTECTIVE EQUIPMENT: Equip cleanup crew with proper protection.
EMERGENCY PROCEDURES: Stop leak if safe to do so. Ventilate area.

PROTECTIVE EQUIPMENT: Wear appropriate personal protection equipment (PPE). See SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION.

ENVIRONMENTAL PRECAUTIONS: Prevent to sewers and public waters. Notify authorities if liquid enters sewers or public waters. .

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Contain any spills with dikes or absorbents to prevent Migration and entry into sewers or streams.

METHODS FOR CLEANING UP: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING/ STORAGE: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

STORAGE CONDITIONS: Store in a dry, cool ad well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

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

INCOMPATIBLE PRODUCTS: Strong acids, strong bases, strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

ETHYLENE GLYCOL (107-21-1)		
USA ACGIH	ACGIH Ceiling (mg/m3)	100 mg/m3
ISOPROPANOL		
		200 ppm

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS/VENTILATION: Ensure adequate ventilation, especially in confined areas.

RESPIRATORY PROTECTION: Use NIOSH approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupation Exposure Limits.

EYE/FACE PROTECTION: Use chemical goggles or safety glasses.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear chemically resistant protective gloves.



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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear chemically resistant materials and fabrics. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Routinely wash protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
PHYSICAL STATE: Liquid.
COLOR: Blue
ODOR: Alcohol
ODOR THRESHOLD: No data available.
pH: 7-8
EVAPORATION RATE: No data available.
MELTING POINT/RANGE: No data available.
FREEZING POINT: -13°C (8.6°F)
BOILING POINT (760 mmHg): 197° C (386°F) @ 760 mm Hg
FLASH POINT/METHOD USED: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
FLAMMABILITY (solid, gas): No data available.
VAPOR PRESSURE (mmHg): 0.06mm Hg @ 20°C (68°F)
RELATIVE VAPOR DENSITY (AIR = 1): 2.1 (Air=1)
SPECIFIC GRAVITY: 1.12 @ 15.5°C (60.4°F)
SOLUBILITY IN WATER: 100%
PARTITION COEFFICIENT, n-OCTANOL/WATER: No data available.
VISCOSITY: No data available.

OTHER INFORMATION:
VOC CONTENT: 0% @ 20°C (68°F)

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Hazardous reactions will not occur under normal conditions.

CHEMICAL STABILITY: Stable under recommended handling and storage conditions (see Section 7).

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids. Strong bases. Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon oxides (CO, CO₂).

HAZARDOUS POLYMERIZATION: Will not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** See above.



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SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: Harmful if swallowed.

ETHYLENE GLYCOL	
ATE (Oral)	500.00 mg/kg body weight.

SKIN CORROSION/IRRITATION: Not classified.

**SERIOUS EYE DAMAGE/
EYE IRRITATION:** Causes eye irritation.

RESPIRATORY OR SKIN SENSITIZATION: Not classified.

GERM CELL MUTAGENICITY: Not classified.

CARCINOGENICITY: Not classified.

REPRODUCTIVE TOXICITY: Not classified.

**SPECIFIC TARGET ORGAN TOXICITY-
SINGLE EXPOSURE:** Not classified.

**SPECIFIC TARGET ORGAN TOXICITY-
REPEATED EXPOSURE:** May cause damage to organs (kidneys) though prolonged or repeated exposure (oral).

ASPIRATION HAZARD: Not classified.

AFTER INHALATION: May cause respiratory irritation.

AFTER SKIN CONTACT: May cause skin irritation.

AFTER EYE CONTACT: Causes eye irritation.

AFTER INGESTION: Harmful if swallowed.

CHRONIC SYMPTOMS: May cause damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

ETHYLENE GLYCOL (107-21-1)	
LC50 Fish 1	41000 mg/l (Exposure time: 96 h – Species: Oncorhynchus mykiss)
LC50 Daphnia 1	46000 mg/l (Exposure time: 48 h – Species: Daphnia magna)
LC 50 Fish 2	14 – 18 ml/l (Exposure time: 96 h – Species: Oncorhynchus mykiss [static])

PERSISTENCE AND DEGRADABILITY: No additional information available.

BIOACCUMULATIVE POTENTIAL:

ETHYLENE GLYCOL (107-21-1)	
Log Pow	-1.93



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MOBILITY IN SOIL: No additional information available.
OTHER ADVERSE EFFECTS: **OTHER INFORMATION:** Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: WASTE DISPOSAL RECOMMENDATIONS: Dispose of waste material in accordance with local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): BULK
PROPER SHIPPING NAME: ICE MELTING COMPOUND, LIQUID
HAZARD CLASS: NONE
ID NUMBER: NONE
PACKING GROUP: NONE
LABEL STATEMENT: NONE

SECTION 15: REGULATORY INFORMATION

ETHYLENE GLYCOL

SARA SECTION 311/312 HAZARD CLASSES	Immediate (acute) health hazard Delayed (chronic) health hazard
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ETHYLENE GLYCOL (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
 Listed on United States SARA Section 313

EPA TSCA REGULATORY FLAG	Y2 – Y2 – indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that compromises one of the eligibility criteria for the exemption rule.
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SARA SECTION 313 – EMISSION REPORTING	1.0%
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U.S. FEDERAL REGULATIONS: See above chart.

SECTION 16: OTHER INFORMATION

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

REVISION DATE: 08/04/16

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.