



SAFETY DATA SHEET

Product: MARC 77 MICRO-ZYME

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 77 MICRO-ZYME**

SDS DATE: 12/26/2018

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: Wastewater treatment.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Acute toxicity-oral-category 4; serious eye irritation-category 2A, skin sensitization-category 1.



SIGNAL WORD, HAZARD AND PRECAUTIONARY STATEMENTS: **WARNING:** May cause allergic skin reaction. Causes eye irritation. May be harmful if swallowed. Do not get into eyes, on skin, in mouth or on to clothing. Wash hands thoroughly after handling. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **IF ON SKIN:** Gently wash with plenty of soap and water. **IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. **IF SWALLOWED:** Rinse mouth. **DO NOT** induce vomiting. Call a **POISON CENTER** or doctor/physician if you feel unwell. Storage: Store out of direct sunlight under 122°F. Dispose of in accordance with local, state and federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>TLV</u>	<u>%</u>
Nonyl Phenol Ethoxylate	9016-45-9	not est.	1-4
Bacterial cultures	N/A	not est.	5-15

SECTION 4: FIRST AID MEASURES

EYES: Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, seek medical.

SKIN: Wash area with plenty of soap and water. Get medical attention if irritation persists.

INGESTION: If swallowed, seek medical advice if you feel unwell.

INHALATION: If mist is generated, get fresh air.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: None.

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Flush to sewer.

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



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METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as emergency procedures. in accordance with governmental regulations.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Do not contact sores or broken skin. Do not take internally.

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

STORAGE: Store in a cool, dry and well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>TLV</u>	<u>%</u>
Nonyl Phenol Ethoxylate	9016-45-9	not est.	1-4

ENGINEERING CONTROLS: N/A

MECHANICAL: N/A

OTHER: N/A

VENTILATION: N/A

RESPIRATORY PROTECTION: N/A

EYE PROTECTION: Goggles.

SKIN PROTECTION/PROTECTIVE GLOVES: Rubber or nitrile gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Wash with soap and water after use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-
PHYSICAL STATE/COLOR: Tan-colored liquid.
ODOR: Spicy, pleasant fragrance
pH: Neutral
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1
MELTING POINT: N/A
FREEZING POINT: N/A
BOILING POINT: 212°F
FLASH POINT/METHOD USED: None
EVAPORATION RATE: 1 (water = 1)
FLAMMABILITY LIMITS: Non-flammable, non-combustible
VAPOR PRESSURE (mmHg): N/D
VAPOR DENSITY (AIR = 1): N/D
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: N/A



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INCOMPATIBILITY (MATERIAL TO AVOID): Effectiveness is destroyed by acids and alkalies.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon oxides.

HAZARDOUS POLYMERIZATION: No **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Possible eye Irritation.

SKIN: Possible skin Irritation.

INGESTION: Do not contact sores or broken skin.

INHALATION: Respiratory conditions if mist is generated.

ACUTE HEALTH HAZARDS: Irritation.

CHRONIC HEALTH HAZARDS: Irritation.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory conditions if mist is generated.

CARCINOGENICITY: No.

TOXICITY TO ANIMALS: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: Not Available.

DEGRADABILITY: Not Available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents in accordance with all applicable local, regional and governmental regulations.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): Quarts
PROPER SHIPPING NAME: COMPOUND, CLEANING LIQUID.
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: NONE

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not Applicable

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not Applicable

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

311/312 HAZARD CATEGORIES: Not Applicable

313 REPORTABLE INGREDIENTS: Not Applicable



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SECTION 16: OTHER INFORMATION

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

REVISION DATE: 12/26/2018

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.