



# SAFETY DATA SHEET

Product: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

SDS DATE: 05/29/15

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: Waste Water and Drain Treatment.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Eye, Skin irritant.

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: **CAUTION:** May irritate eyes and skin. Avoid eye contact and prolonged skin contact. Wash off with water. Do not take internally. Keep product dry before use.

POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% by WT.</u>
-------------------	----------------	-----------------

(Product is a mixture.)

## SECTION 4: FIRST AID MEASURES

GENERAL INFORMATION: If you feel unwell, seek medical advice (show the label where possible).

EYES: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

SKIN: Rinse skin with water/shower.

INGESTION: Rinse mouth with water. **DO NOT INDUCE VOMITING!** Get medical attention immediately.

INHALATION: Remove victim into fresh air immediately.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treat symptomatically.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A



# SAFETY DATA SHEET

Product: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

Form R04132

## SECTION 5: FIRE FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:** All extinguishing media allowed.
- SPECIAL FIRE FIGHTING PROCEDURES:** Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
- FIREFIGHTING PROTECTION:** Do not enter fire area without proper protective equipment, including respiratory protection.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** No additional information available.
- HAZARDOUS DECOMPOSITION PRODUCTS:** None.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- EMERGENCY PROCEDURES:** Evacuate unnecessary personnel. Stop leak if safe to do so. Stop release. Isolate fire, if possible, without unnecessary risk. Ventilate spillage area. Avoid contact with skin, eyes and clothing.
- PROTECTIVE EQUIPMENT:** Equip cleanup crew with proper protection; protective goggles, gloves, protective clothing. Use personal protective devices as stated in Section 8.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Same as emergency procedures. This material and its container must be disposed of in a safe way, and as per local legislation.

## SECTION 7: HANDLING AND STORAGE

- GENERAL HANDLING:** Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.
- OTHER PRECAUTIONS:** **KEEP OUT OF REACH OF CHILDREN! CAREFULLY READ ENTIRE LABEL BEFORE USE!**
- STORAGE:** Store in a cool, well-ventilated place. Keep container closed when not in use.
- HYGIENE MEASURES:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% by WT.</u>
-------------------	----------------	-----------------

(Product is a mixture.)

**ENGINEERING CONTROLS:** N/A

**VENTILATION:** N/A

**RESPIRATORY PROTECTION:** N/A

**EYE PROTECTION:** Goggles.

**SKIN PROTECTION/PROTECTIVE GLOVES:** Rubber.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Protective clothing.

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling. Handle according to established industrial hygiene and safety practices. Wash hands before eating, drinking or smoking.



# SAFETY DATA SHEET

Product: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

Form R04132

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE-

PHYSICAL STATE:	Granular.
COLOR:	Tannish colored granule.
ODOR:	Mild.
ODOR THRESHOLD:	No data available.
pH:	N/A
MELTING/FREEZING POINT:	No data available.
BOILING POINT:	No data available.
FLASH POINT/METHOD USED:	None.
EVAPORATION RATE:	None.
FLAMMABILITY (solid, gas):	None.
EXPLOSION LIMITS:	None.
EXPLOSIVE PROPERTIES:	None.
VAPOR PRESSURE (mmHg):	None.
VAPOR DENSITY (AIR = 1):	80 pounds per cubic foot.
RELATIVE VAPOR DENSITY AT 20°C:	None.
SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	N/A
SOLUBILITY IN WATER:	Soluble in water.
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: No additional information available.

POSSIBILITY OF HAZARDOUS REACTIONS: No additional information available.

STABILITY: Stable

CONDITIONS TO AVOID: Extremes of pH destroy bacterial action.

INCOMPATIBILITY (MATERIAL TO AVOID): Bleach.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID (POLYMERIZATION): NA

## SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Direct contact with eyes is likely irritating.

SKIN: Contact during a long period may cause light irritation.

INGESTION: Gastrointestinal complaints.

INHALATION: None under normal use.

**EFFECTS OF OVEREXPOSURE:** Although chance of negative response is unlikely with enzyme preparations of this concentration there remains a possibility of allergic response in certain sensitized and affected individuals to skin contact, eye contact, or inhalation of dust from product. Repeated exposure via inhalation can result in sensitization and allergic response in hypersensitive individuals.



# SAFETY DATA SHEET

Product: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

Form R04132

**ACUTE HEALTH HAZARDS:** Asthmatic condition should avoid contact with dusty conditions.

**CHRONIC HEALTH HAZARDS:** See Medical Conditions Aggravated by Exposure below.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Individuals with known allergies, particularly to feedstuffs or enzymes, as well as those individuals with chronic respiratory disease or particular susceptibility thereto and those with asthmatic conditions should avoid contact with dusty conditions.

**CARCINOGENICITY:** N/A

**TOXICITY TO ANIMALS:** N/A

## SECTION 12: ECOLOGICAL INFORMATION

**TOXICITY:** No additional information available.

**PERSISTENCE AND DEGRADABILITY:** No additional information available.

**BIOACCUMULATIVE POTENTIAL:** No additional information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: TRANSPORT INFORMATION

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

<b>CONTAINER SIZES(S):</b>	Bulk, Special
<b>PROPER SHIPPING NAME:</b>	CLEANING COMPOUNDS, N.O.I.,
<b>HAZARD CLASS:</b>	N/A
<b>ID NUMBER:</b>	N/A
<b>PACKING GROUP:</b>	N/A
<b>LABEL STATEMENT:</b>	None

## SECTION 15: REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components of this product are listed, or excluded from listing.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** N/A

**SARA 313 OF TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**311/312 HAZARD CATEGORIES:** N/A

**CALIFORNIA PROPOSITION 65** – This product does not contain substances known to the State of California to cause cancer and/or reproductive toxicity.



# SAFETY DATA SHEET

Product: MARC 99 MICRO-ZYME BACTERIAL ENZYMES

Form R04132

## SECTION 16: OTHER INFORMATION

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

REVISION DATE: 05/29/15

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.