



# SAFETY DATA SHEET

Product: **MARC 63 AMMONIA-OUT BACTERIAL TREATMENT**

Form R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 63 AMMONIA-OUT BACTERIAL TREATMENT**

SDS DATE: 10/23/2023

SUPPLIER: Mid-American Research Chemical Corp.  
PHONE: 402-564-7104 FAX: 402-563-1290  
EMERGENCY PHONE: InfoTrac 1-800-535-5053  
E-MAIL: marc1@marc1.com

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927  
WEBSITE: www.marc1.com

RECOMMENDED USE: Wastewater treatment.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

**CLASSIFICATION:** Not classified. GHS labeling not applicable. **SIGNAL WORD AND PRECAUTIONARY STATEMENTS-- CAUTION:** May irritate eyes and skin. Avoid eye contact and prolonged skin contact. Avoid breathing dust. Wear eye and skin protection. Wash off with water. Do not take internally. Keep product dry before use. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>% by WT.</u>
Sodium Bicarbonate	144-55-8	50-80
Bacterial Cultures	N/A	30-50

Specific percentages claimed as a trade secret.

## SECTION 4: FIRST AID MEASURES

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Repeated or prolonged skin contact may cause allergic reactions in susceptible persons. **Inhalation:** When symptoms occur: Go into open air and ventilate suspected area. **Skin Contact:** Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation or rash develops or persists. **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists. **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed. **Most Important Symptoms and Effects Both Acute and Delayed-- General:** None expected under normal conditions of use. **Inhalation:** Prolonged inhalation of dust may cause respiratory irritation. **Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation. **Eye Contact:** Contact may cause irritation due to mechanical abrasion. **Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema. **Chronic Symptoms:** None expected under normal conditions of use. If exposed or concerned, get medical advice and attention.

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire. **Unsuitable Extinguishing Media:** For surrounding fire: Use of heavy stream of water may spread fire. **Fire Hazard:** NOT FLAMMABLE. Under fire conditions, hazardous fumes will be present. **Explosion Hazard:** Product is not explosive. **Reactivity:** Hazardous reactions will not occur under normal conditions. **Precautionary Measures:** Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. **Firefighting Instructions:** Exercise caution when fighting any chemical fire. **Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>), sodium oxides.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**General Measures:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact. **Protective Equipment:** Use appropriate personal protection equipment (PPE). Equip cleanup crew with proper protection. **Emergency Procedures:** Evacuate unnecessary personnel. **Emergency Procedures:** Ventilate area. **Environmental Precautions:** Prevent entry to public waters. **For Containment:** Contain and collect as any solid. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.



# SAFETY DATA SHEET

Product: **MARC 63 AMMONIA-OUT BACTERIAL TREATMENT**

Form R04132

## SECTION 7: HANDLING AND STORAGE

**Hygiene Measures:** 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 again when leaving work. **Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. **Incompatible Materials:** Acids, alkalies, strong oxidizers. **Storage Temperature:** Below 65°C (150°F).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Sodium Bicarbonate:** ACGIH (TWA) = 3 mg/m<sup>3</sup> respirable fraction, 10 mg/m<sup>3</sup> total dust; OSHA PEL (TWA) = 5 mg/m<sup>3</sup> respirable fraction, 15 mg/m<sup>3</sup> total dust.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Granular.
<b>COLOR:</b>	Tannish colored granule.
<b>ODOR:</b>	Mild.
<b>ODOR THRESHOLD:</b>	No data available.
<b>pH:</b>	8.2 (1% solution)
<b>MELTING/FREEZING POINT:</b>	N/A
<b>BOILING POINT:</b>	N/A
<b>FLASH POINT/METHOD USED:</b>	None.
<b>EVAPORATION RATE:</b>	None.
<b>FLAMMABILITY (solid, gas):</b>	None.
<b>EXPLOSION LIMITS:</b>	None.
<b>VAPOR PRESSURE (mmHg):</b>	None.
<b>VAPOR DENSITY (AIR = 1):</b>	N/A
<b>SPECIFIC GRAVITY:</b>	62 pounds per cubic foot
<b>SOLUBILITY IN WATER:</b>	Soluble in water.
<b>AUTO-IGNITION TEMPERATURE:</b>	N/A
<b>DECOMPOSITION TEMPERATURE:</b>	N/A
<b>VISCOSITY:</b>	N/A

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions. **Chemical Stability:** Decomposes slowly on exposure to water (moisture). **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur. **Conditions to Avoid:** Exposure to moisture or moist air during storage and temperatures above 150°F (65°C). **Incompatible Materials:** Acids, alkalies, strong oxidizers. **Hazardous Decomposition Products:** None known. At high temperature, may liberate toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Sodium Bicarbonate</b>	
<b>LD50 Oral Rat</b>	7.3 g/kg
<b>LC50 Inhalation Rat</b>	> 4.7 mg/l/4h

**Skin Corrosion/Irritation:** Not classified [pH: 8.2 (1% Solution)]. **Serious Eye Damage/Irritation:** Not classified [pH: 8.2 (1% Solution)]. **Respiratory or Skin Sensitization:** Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not classified. **Carcinogenicity:** Not classified. **Specific Target Organ Toxicity (Repeated Exposure):** Not classified. **Reproductive Toxicity:** Not classified. **Specific Target Organ Toxicity (Single Exposure):** Not classified. **Aspiration Hazard:** Not classified. **Symptoms/Injuries After Inhalation:** Prolonged inhalation of dust may cause respiratory irritation. **Symptoms/Injuries After Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation. **Symptoms/Injuries After Eye Contact:** Contact may cause irritation due to mechanical abrasion. **Symptoms/Injuries After Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema. **Chronic Symptoms:** None expected under normal conditions of use.

## SECTION 12: ECOLOGICAL INFORMATION



# SAFETY DATA SHEET

Product: **MARC 63 AMMONIA-OUT BACTERIAL TREATMENT**

Form R04132

<b>Sodium Bicarbonate</b>	
<b>LC50 Fish 1</b>	7100 mg/l Bluegill
<b>EC50 Daphnia 1</b>	4100 mg/l
<b>LC 50 Fish 2</b>	7700 mg/l Rainbow Trout
<b>Sodium bicarbonate</b>	
<b>LC50 Fish 1</b>	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>EC50 Daphnia 1</b>	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence and Degradability:** Not established. **Bioaccumulative Potential:** Not established. **Mobility in Soil:** Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

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

## SECTION 14: TRANSPORT INFORMATION

**U.S. DEPARTMENT OF TRANSPORTATION (for ground shipments)--**

<b>CONTAINER SIZES(S):</b>	All
<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-Sodium Bicarbonate:** Listed on the United States TSCA (Toxic Substances Control Act) inventory.

## SECTION 16: OTHER INFORMATION

**HMIS/NFPA Ratings:** Health = 1; Flammability = 0; Reactivity = 0.

**N/A** = Not Applicable, **N/D** = Not Determined, **N/E** = Not Established.

**DISCLAIMER:** This Safety Data Sheet is offered solely for your information, consideration and investigation. Supplier provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. The supplier urges persons receiving this information to make their own determination as to the information's suitability for their particular application.