



SAFETY DATA SHEET

Product: MARC 404 SOIL CONDITIONER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 404 SOIL CONDITIONER**

SDS DATE: 01/04/2019

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: Soil conditioner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Eye and skin irritant – Categories 2A/2.



SIGNAL WORD AND PRECAUTIONARY STATEMENTS: WARNING: Eye and skin irritant. May be harmful if swallowed. Wash thoroughly after handling. Wear protective gloves and eye protection. 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. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention. If swallowed: Do NOT induce vomiting. Get immediate medical attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | IDENTIFICATION NUMBER CAS-NO | CONCENTRATION (%) |
|--|---------------------------------|-------------------|
| Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 | 5% - 20% |

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15-20 minutes. Seek medical advice.

SKIN: Immediately flush skin with plenty of water for at least 15-20 minutes while removing contaminated clothing and shoes. Seek medical advice. Wash contaminated clothing separately before reuse.

INGESTION: **DO NOT INDUCE VOMITING** without medical advice. If victim is unconscious: rinse mouth with water, keep at rest, lay victim on side. Vomiting may occur spontaneously. Risk of product entering the lungs on vomiting after ingestion. Seek medical advice.

INHALATION: Negligible or unlikely exposure pathways. If inhaled or breathed in, move person in to fresh air. Consult a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS.

BOTH ACUTE AND DELAYED: Skin contact may aggravate existing skin disease.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: >200°F (>93°C)

AUTOIGNITION TEMPERATURE: no data available.

FLAMMABILITY / EXPLOSIVE LIMIT: no data available.



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EXTINGUISHING MEDIA:

None

SUITABLE EXTINGUISHING MEDIA:

Extinguishing media – small fires - dry chemical, carbon dioxide (CO₂),
Extinguishing media – large fires - foam, water spray.

UNSUITABLE EXTINGUISHING MEDIA:

High volume water jet, (frothing possible).

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

SPECIFIC HAZARDS DURING FIRE FIGHTING: Under fire conditions: will burn, on combustion or on thermal decomposition (pyrolysis), releases: carbon oxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

ADVICE FOR FIREFIGHTERS:

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

SPECIFIC FIRE FIGHTING METHODS:

Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS/PROTECTIVE EQUIPMENT/EMERGENCY PROCEDURES:

Wear suitable protective equipment. For further information refer to section 8 "Exposure controls / personal protection."

ENVIRONMENTAL PRECAUTIONS: Take all necessary measures to avoid accidental discharge of products into drains and waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:

METHODS FOR CONTAINMENT:

Dam up with sand or inert earth (do not use combustible materials).

RECOVERY: Soak up with inert absorbent material. Shovel or sweep up. Keep in suitable, closed containers for disposal. Never return spills in original containers for re-use.

**DECONTAMINATION/
CLEANING:**

Clean contaminated surface thoroughly. Flush with plenty of water. Recover the cleaning water for subsequent disposal. Decontaminate tools, equipment and personal protective equipment in a segregated area.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

ADVICE ON SAFE HANDLING AND USAGE: Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of vapor or mist. Avoid contact with skin and eyes.

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

INCOMPATIBLE PRODUCTS: Strong oxidizing agents. Strong reducing agents.

STORAGE: Keep container tightly closed in a dry and well-ventilated place.

SPECIFIC END USE(S): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

CONTROL PARAMETERS: Contains no substances with occupational exposure limit values.



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EXPOSURE CONTROLS/ENGINEERING MEASURES: None

RESPIRATORY PROTECTION: No personal respiratory protective equipment normally required.

EYE PROTECTION: Safety glasses with side -shields.

SKIN PROTECTION/PROTECTIVE GLOVES: Where there is a risk of contact with hands, use appropriate gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Recommended preventive skin protection. Footwear protecting against chemicals. Impervious clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

WORK HYGIENIC PRACTICES: Personal hygiene is an important work practice. Wash hands and face carefully before eating, drinking, using tobacco or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-PHYSICAL STATE: Thin liquid

COLOR: Green

ODOR: Slight

ODOR THRESHOLD: No data available.

pH: 7.0 – 8.0

MELTING POINT: N/A

FREEZING POINT: N/A

BOILING POINT: 212°F

FLASH POINT/METHOD USED: >200°F (>93°C) closed cup

EVAPORATION RATE: No data available.

FLAMMABILITY (solid, gas): No data available.

FLAMMABILITY LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE (mmHg): <0.1 mmHg (0.13 hPa) (77°F (25°C)).

VAPOR DENSITY (AIR = 1): No data available.

DENSITY: Relative density: 1.00 (77°F (25°C)).

SOLUBILITY: Water solubility: soluble

PARTITION COEFFICIENT:

N-OCTANE/WATER: No data available.

THERMAL DECOMPOSITION: No data available.

VISCOSITY: No data available.

EXPLOSIVE PROPERTIES: No data available.

OXIDIZING PROPERTIES: No data available.

SPECIFIC GRAVITY (H₂O = 1): 1.0

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available.

CHEMICAL STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing agents. Strong reducing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: On combustion or on thermal decomposition (pyrolysis), releases: carbon oxides.

HAZARDOUS POLYMERIZATION: Does not occur. **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY



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ACUTE ORAL TOXICITY: LD50: 1,350 mg/kg – Rat

ACUTE INHALATION TOXICITY: No data available

ACUTE DERMAL TOXICITY: No data available

ACUTE TOXICITY (OTHER ROUTES OF ADMINISTRATION): No data available

SKIN CORROSION/IRRITATION

SKIN IRRITATION: No data available

SERIOUS EYE DAMAGE/EYE IRRITATION:

EYE IRRITATION: No data available

RESPIRATORY OR SKIN SENSITIZATION:

SENSITIZATION: No data available

MUTAGENICITY

GENOTOXICITY IN VITRO: No data available

GENOTOXICITY IN VITRO: No data available

CARCINOGENICITY:

CARCINOGENICITY: No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

**NTP
IARC
OSHA
ACGIH**

TOXICITY FOR REPRODUCTION AND DEVELOPMENT

TOXICITY TO REPRODUCTION/FERTILITY: No data available

DEVELOPMENTAL TOXICITY/TERATOGENICITY: No data available

STOT

STOT-single exposure: No data available

STOT – repeated exposure: No data available

ASPIRATION TOXICITY:

ASPIRATION TOXICITY: No data available

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY: No data available

PERSISTENCE & DEGRADABILITY: No data available

BIOACCUMULATIVE POTENTIAL: No data available

MOBILITY IN SOIL: No data available

RESULTS OF PBT & vPvB ASSESSMENT: No data available

OTHER ADVERSE EFFECTS: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents/container in accordance with local regulations.



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SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): Bulk, Gallons, Quarts
PROPER SHIPPING NAME: COMPOUND, CLEANING LIQUID
HAZARD CLASS: None
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

NOTE: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

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

SARA 313 REPORTABLE INGREDIENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SECTION 16: OTHER INFORMATION

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

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/KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THE SAFETY DATA SHEET:

ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
WHMIS: Workplace Hazardous Materials Information System
NTP: National Toxicology Program
IARC: International Agency for Research on Cancer
SAEL: Solvay Acceptable Exposure Limit
NIOSH: National Institute for Occupational Safety and Health
NFPA: National Fire Protection Association
HMIS: Hazardous Materials Identification System (Paint & Coating)

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.