



SAFETY DATA SHEET

Product: MARC 51 TILE AND GROUT CLEANER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 51 TILE AND GROUT CLEANER**

SDS DATE: 11/29/18

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: Cleaner, descaler.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS CLASSIFICATION: Skin irritation category 2; serious eye irritation category 2A; acute oral toxicity category 4.



SIGNAL WORD AND HAZARD AND PRECAUTIONARY STATEMENTS- WARNING: Harmful if swallowed. Causes mild skin irritation. Causes eye irritation. Harmful to aquatic life with long lasting effects. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/spray. Wear protective gloves, clothing and eye protection. **IF SWALLOWED:** Immediately call poison center or doctor. **DO NOT** induce vomiting. **IF ON SKIN** Take off immediately all contaminated clothing. Rinse skin with water. **IF INHALED:** Remove to fresh air and keep comfortable for breathing. **IF IN EYES** rinse cautiously with water for at least 15minutes. **IF ON CLOTHING,** Take off contaminated clothing. Dispose of content and/or container in accordance with local, regional, national or international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Specific percentages may be claimed as a trade secret.

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>%</u>	<u>TWA</u>
Sulfamic Acid	5329-14-6	5 -15	None established
Nonyl Phenol Ethoxylate	9016-45-9	1 – 5	None established

SECTION 4: FIRST AID MEASURES

EYES: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water until transported to an emergency medical facility. Consult a physician or ophthalmologist immediately.

SKIN: Quickly remove contaminated clothing (if not stuck to skin). Rinse with flooding amounts of water for at least 15 minutes. For reddened or blistered skin, consult a physician.

INGESTION: Never give anything by mouth to an unconscious or convulsing person. Contact a poison control center. Unless the poison control center advises otherwise, have the conscious and alert person drink 1 to 2 glasses of water to dilute. **DO NOT INDUCE VOMITING** because of the corrosive nature of sulfamic acid. Vomiting will worsen esophageal condition.

INHALATION: Remove exposed person to fresh air and support breathing as needed.

After first aid, get appropriate in-plant, paramedic, or community medical support.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treatment is symptomatic and supportive. Treat as for thermal burns. Severe inhalation exposures may result in delayed pulmonary edema; in these cases consider close observation or 24 to 48 hours.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use agent suitable for surrounding fire.



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SPECIAL FIRE FIGHTING PROCEDURES/ EQUIPMENT:

Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Emits toxic gases when heated.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxide(s), nitrogen oxide(s), and ammonia gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Notify safety personnel, isolate and ventilate area, deny entry, and stay upwind.

SMALL SPILLS: Carefully collect and place in suitable container for disposal.

LARGE SPILLS:

Containment: Flush with plenty of water to containment area for later disposal. Do not release into sewers or waterways.

Cleanup: Damp mop with dilute alkaline solution (sodium bicarbonate, sodium hydroxide, lime).

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

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

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

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation of mists.

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

STORAGE: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>%</u>	<u>TWA</u>
Sulfamic Acid	5329-14-6	5 -15	None estab.
Nonyl Phenol Ethoxylate	9016-45-9	1 - 5	None estab.

ENGINEERING CONTROLS: N/A

MECHANICAL: N/A

VENTILATION : Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

ADMINISTRATIVE CONTROLS: Instruct employees on the proper use of PPE to prevent severe irritation and burns from contact

RESPIRATORY PROTECTION: If necessary wear a MSHA/NIOSH approved dust respirator.

EYE PROTECTION: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

SKIN PROTECTION/PROTECTIVE GLOVES: Wear chemically protective gloves to prevent prolonged or repeated skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.



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CONTAMINATED EQUIPMENT: Separate contaminated work clothes from street clothes. Launder before reuse. Remove product from our shoes and clean personal protective equipment.

WORK HYGIENIC PRACTICES: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE-
PHYSICAL STATE/COLOR:** Green/liquid.
ODOR: Wintergreen fragrance
pH: N/A
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: (H₂O=1, at 4°C):1.06
FREEZING/ MELTING POINT: 3
BOILING POINT: 212°F
FLASH POINT/METHOD USED: Noncombustible.
EVAPORATION RATE: N/A
FLAMMABILITY LIMITS: Noncombustible
VAPOR PRESSURE (mmHg): N/D
VAPOR DENSITY (AIR = 1): N/D
**PARTITION COEFFICIENT,
n-OCTANOL/WATER:** N/A
AUTO-IGNITION TEMPERATURE: Noncombustible.
DECOMPOSITION TEMPERATURE: N/A
VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None

STABILITY: Stable when dry.

CONDITIONS TO AVOID: Exposure to incompatibles.

INCOMPATIBILITY (MATERIAL TO AVOID): Undergoes a violent or explosive reaction with chlorine, metal nitrates + heat, metal nitrites + heat, and fuming nitric acid.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal oxidative decomposition can produce nitrogen oxide(s), sulfur oxide(s), and ammonia gas.

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

SECTION 11: TOXICOLOGICAL INFORMATION

EYES: Serious irritation.

SKIN: Serious irritation.

INGESTION: Serious irritation may occur.

INHALATION: Inhalation of mists can cause severe irritation of the nose and respiratory tract.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported.

CARCINOGENICITY: IARC, NTP, and OSHA do not list sulfamic acid as a carcinogen.

TOXICITY TO ANIMALS: N/A

TOXICITY DATA OF SULFAMIC ACID:

EYE EFFECTS: Rabbit, eye: 20 mg caused moderate irritation.
Rabbit, eye: 250 mg/24 hour caused severe irritation.



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SKIN EFFECTS: Human, skin: 4% solution applied intermittently for 5 days caused mild irritation.
Rabbit, skin: 500 mg applied for 24 hours caused severe irritation.

ACUTE ORAL: Rat, oral, LD50: 3160 mg/kg
Mouse, oral, LD50: 1312 mg/kg caused altered sleep time
(including righting reflex), excitement, and rigidity.

CHRONIC EFFECTS: N/A

CARCINOGENICITY: N/A

MUTAGENICITY: N/A

TERATOGENICITY: N/A

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: N/D

ENVIRONMENTAL FATE: N/A

ENVIRONMENTAL DEGRADATION: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dilute with water, neutralize with alkaline material (lime, sodium hydroxide, sodium bicarbonate).
Follow applicable Federal, state and local regulations.

DISPOSAL REGULATORY REQUIREMENTS: N/A

CONTAINER CLEANING AND DISPOSAL: N/A

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): Quarts
PROPER SHIPPING NAME: LIQUID, CLEANING COMPOUND.
HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENT: LIMITED QUANTITY

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): CAS#5329-14-6 is listed on the TSCA inventory.

HEALTH & SAFETY REPORTING LIST: None of the chemicals are on the Health & Safety Reporting List.

CHEMICAL TEST RULES: None of the chemicals in this product are under a Chemical Test rule.

SECTION 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA SIGNIFICANT NEW USE RULE: None of the chemicals in this material have a SNUR under TSCA.

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

SARA – SECTION 302 (RQ): None of the chemicals in this material have an RQ.



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SARA – SECTION 302 (TPQ): None of the chemicals in this material have a TPQ.

SARA CODES: CAS#5329-14-6: acute.

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: No chemicals are reportable under Section 313.

CLEAN AIR ACT:

This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

CLEAN WATER ACT:

None of the chemicals in this product are listed as Hazardous Substances under CWA.
None of the chemicals in this product are listed as Priority Pollutants under CWA.
None of the chemicals in this product are listed as Toxic Pollutants under CWA.
OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:

Sulfamic Acid can be found on the following state right to know lists: New Jersey.
California No Significant Risk level: None of the chemicals in this product are listed.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2
Flammability = 0
Reactivity = 0
Other = -
Protection = -

REVISION DATE: 11/29/18

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.