



# SAFETY DATA SHEET

Product: MARC 222 CITRUS CONCRETE CLEANER

Form  
R04132

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 222 CITRUS CONCRETE CLEANER**

SDS DATE: 08/18/2021

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: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Cleaning compound.

PREPARED BY: MARC

## SECTION 2: HAZARDS IDENTIFICATION

**GHS-US CLASSIFICATION:** Skin Corrosion 1B; Skin Sensitization 1.

**Signal word:** Danger. **Hazard statements:** Causes severe skin burns and eye damage. May cause an allergic skin reaction. **Precautionary statements:** Do not breathe dust. Avoid breathing dust. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection, protective clothing, protective gloves. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of soap and water. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER. Specific treatment (see First aid measures on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to comply with local/regional/national/international regulations.



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	PER CENT
Sodium Carbonate	497-19-8	55% - 70%
Trisodium orthophosphate dodecahydrate	10101-89-0	3% - 7%
Disodium Metasilicate	6834-92-0	3% - 7%
Limonene	5989-27-5	1% - 5%
Benzenesulfonic Acid, C <sub>10</sub> -C <sub>16</sub> alkyl der.	68584-22-5	1% - 5%
Undeceth-5	34398-01-1	1% - 5%
Sodium Trimetaphosphate	7785-84-4	0.1% - 0.2%

Specific chemical identity and/or percentages of composition have been withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

**First-aid measures general:** If you feel unwell, seek medical advice (show the label where possible). **First-aid measures after inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. **First-aid measures after skin contact:** Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. **First-aid measures after eye contact:** Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. **First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Consult a doctor/medical service if you feel unwell. **Symptoms/injuries:** Causes severe skin burns and eye damage. **Symptoms/injuries after inhalation:** May cause respiratory irritation. **Symptoms/injuries after skin contact:** Caustic burns/corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking. **Symptoms/injuries after eye contact:** Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage. **Symptoms/injuries after ingestion:** Burns to the gastric/intestinal mucosa, gastrointestinal complaints, nausea, diarrhea.

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Adapt extinguishing media to the environment. **Reactivity:** Upon combustion CO and CO<sub>2</sub> are formed. **Firefighting instructions:** Exercise caution when fighting any chemical fire. Use water moderately and, if possible, collect or contain it. Use water spray or fog for cooling exposed containers. **Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**General measures:** Isolate from fire, if possible, without unnecessary risk. **Protective equipment:** Safety glasses. Gloves. Protective clothing. **Emergency procedures:** Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area. **Protective equipment:** Equip cleanup crew with proper protection. **Emergency procedures:** Stop leak if safe to do so. Stop release. Ventilate area. **Environmental precautions:** Avoid release to the environment. Prevent soil and water pollution. **Methods and material for containment and cleaning up:** Contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Comply with the legal requirements. 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. **Hygiene measures:** Wash thoroughly after handling. Wash contaminated clothing before reuse. **Technical measures:** Comply with applicable regulations. **Storage conditions:** Keep container closed when not in use. Store in original container. **Incompatible products:** Strong acids. Oxidizing agent. **Storage area:** Keep only in the original container. Store in a dry area. Store in a cool area. **Special rules on packaging:** meet the legal requirements.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protective equipment:** Safety glasses. Gloves. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid.
COLOR:	Orange.
ODOR:	Citrus.
ODOR THRESHOLD:	No data available.
pH:	12.5 (10% solution)
RELATIVE EVAPORATION RATE (BUTYLACETATE=1):	Not applicable.
MELTING/FREEZING POINT:	No data available.
BOILING POINT:	Not applicable.
FLASH POINT/METHOD USED:	Not applicable.
SELF IGNITION TEMPERATURE:	Not applicable.
DECOMPOSITION TEMPERATURE:	No data available.
FLAMMABILITY:	Not flammable.
VAPOR PRESSURE (mmHg):	Not applicable.
RELATIVE VAPOR DENSITY @ 20°C:	Not applicable.
RELATIVE DENSITY:	No data available.
SOLUBILITY IN WATER:	Complete.
LOG POW:	No data available.
LOG KOW:	No data available.
VISCOSITY, KINEMATIC:	Not applicable.
VISCOSITY, DYNAMIC:	Not applicable.
EXPLOSIVE PROPERTIES:	Not applicable.
OXIDIZING PROPERTIES:	None
EXPLOSIVE LIMITS:	Not applicable.
VOC CONTENT:	under 3%.

## SECTION 10: STABILITY AND REACTIVITY

**Upon combustion:** CO and CO<sub>2</sub> are formed. **Chemical stability:** No additional information available. **Possibility of hazardous reactions:** Refer to section 10.1 on Reactivity. **Conditions to avoid:** No additional information available. **Incompatible materials:** Oxidizing agents, strong acids. **Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute toxicity:** Not classified.

### **Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)--**

LD50 oral rat 530 mg/kg.

### **(+)-Limonene (5989-27-5)--**

LD50 oral rat 4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat).

LD50 dermal rabbit > 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402) ATE CLP (oral) 4400.000 mg/kg body weight.

### **Undeceth-5 (34398-01-1)--**

LD50 oral rat > 1400 mg/kg.

### **Sodium Carbonate (497-19-8)--**

LD50 oral rat 2800 mg/kg (Rat; Experimental value).

LD50 dermal rabbit > 2000 mg/kg (Rabbit; Experimental value).

ATE CLP (oral) 2800.000 mg/kg body weight.

### **Trisodium Orthophosphate, Dodecahydrate (10101-89-0)--**

LD50 oral rat 7400 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg bodyweight; Rat).

LD50 dermal rabbit > 7940 mg/kg (Rabbit).

LC50 inhalation rat (mg/l) > 0.83 mg/l/4h (Rat).

ATE CLP (oral) 7400.000 mg/kg body weight.

Skin corrosion/irritation: Causes severe skin burns and eye damage.

pH: 12.5 10% solution.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.\

### **(+)Limonene (5989-27-5)--**

IARC group 3 - Not classifiable.

Reproductive toxicity: Not classified

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Caustic burns/corrosion of the skin. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Symptoms/injuries after eye contact: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.

Symptoms/injuries after ingestion: Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. Nausea. Diarrhea.

Likely routes of exposure: Skin and eye contact.

## SECTION 12: ECOLOGICAL INFORMATION

### **Toxicity**

#### **(+)-Limonene (5989-27-5)--**

LC50 fish 1 720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flowthrough system; Fresh water; Experimental value).

EC50 Daphnia 1 0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value).

Threshold limit algae 1 150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water).

#### **Undeceth-5 (34398-01-1)--**

LC50 fish 1 < 10 mg/l; EC50 Daphnia 1 < 10 mg/l; ErC50 (algae) < 10 mg/l.

#### **Sodium Carbonate (497-19-8)--**

LC50 fish 1 300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value).



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Threshold limit algae 1 242 mg/l (EC50; 5 days; Algae).

**Trisodium Orthophosphate, Dodecahydrate (10101-89-0)--**

EC50 Daphnia 2 > 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna).  
Threshold limit algae 1 > 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus).

**(+)-Limonene (5989-27-5)--**

Persistence and degradability Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.  
ThOD 3.29 g O<sub>2</sub>/g substance.

**Sodium Carbonate (497-19-8)--**

Persistence and degradability Biodegradability: not applicable. Low potential for adsorption in soil.  
ThOD Not applicable (inorganic).

**Trisodium Orthophosphate, Dodecahydrate (10101-89-0)--**

Persistence and degradability Biodegradability: not applicable. Biodegradability in soil: not applicable. No data on mobility of the substance available.  
ThOD Not applicable (inorganic).

**(+)-Limonene (5989-27-5)--**

BCF fish 1 864.8 - 1022 (BCF; Pisces).  
Log Pow 4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; (37 °C).  
Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

**Sodium Carbonate (497-19-8)--**

Log Pow -6.19 (Estimated value); Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

**Trisodium Orthophosphate, Dodecahydrate (10101-89-0)--**

Bioaccumulative potential: Not bioaccumulative.

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

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

**CONTAINER SIZES(S):** All  
**PROPER SHIPPING NAME:** Cleaning Compound  
**HAZARD CLASS:** Non-hazardous.  
**ID NUMBER:** NA  
**PACKING GROUP:** NA  
**LABEL STATEMENT:** NA

## SECTION 15: REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. 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.

Undeceth-5 (34398-01-1)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Trisodium Orthophosphate, Dodecahydrate (10101-89-0)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb.
Sodium Tripolyphosphate Anhydrous (7758-29-4)	



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Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb.
Tetrasodium Pyrophosphate (7722-88-5)	
Sodium Trimetaphosphate (7785-84-4)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb.

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm.

## SECTION 16: OTHER INFORMATION

**HMIS/NFPA Ratings:** Health = 2; Flammability = 0; Reactivity = 0

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

**DISCLAIMER:** This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of these data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.