

Mega Maintain™ Metal Stain & Scale Control

SDS Number: CL0020

10/22/2020

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

PERIODIC PRODUCTS, INC.
1885 MARINA MILE BLVD.
SUITE 104
FORT LAUDERDALE, FL 33315

Contact: PERIODIC PRODUCTS, INC.
Phone: 954-764-7654
Web: www.periodicproducts.com

ProductName: Mega Maintain Metal Stain & Scale Control
Revision Date: 1022/2020
Version: 1
SDS Number: CL0020
CAS Number: MIXTURE
Chemical Family: Organic acid solution
Chemical Formula: **PROPRIETARY*
Synonyms: Water Treatment to Lower Water Hardness, Stains and Scale in Swimming Pools, Spas and Fountains
Product Use: Hardwater Reducer, Stain, and Scale Remover for Swimming Pools, Spas and Fountains.

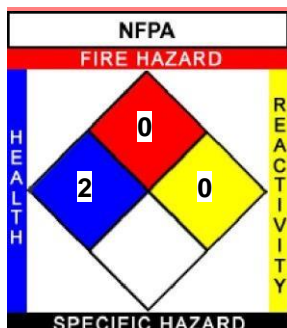
Emergency Phone: (800) 424-9300 (CHEMTREC)

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HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 2, Fire = 0, Reactivity = 0
H1/F0/PH0



HMIS III	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARDS	0
PERSONAL PROTECTION B I Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX											
A	Goggles	G	Goggles + Gloves + Respirator	B	Goggles + Gloves	H	Goggles + Gloves + Stain Resistant Clothing + Respirator	C	Goggles + Gloves + Stain Resistant Clothing	I	Goggles + Gloves + Stain Resistant Clothing + Respirator
D	Goggles + Gloves + Stain Resistant Clothing	J	Goggles + Gloves + Stain Resistant Clothing + Respirator	E	Goggles + Gloves + Stain Resistant Clothing + Respirator	K	Goggles + Gloves + Stain Resistant Clothing + Respirator + Protective Suit	F	Goggles + Gloves + Stain Resistant Clothing + Respirator + Protective Suit	X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A	Safety Glasses	n	Resistant Gloves	o	Face Shield & Eye Protection	p	Gloves	q	Boots	r	Synthetic Airtight
t	Full Face Respirator	u	Vapor Respirator	w	Dust & Vapor Respirator	y	Full Face Respirator	z	Active Hood or Mask	s	Full Suit
Additional Information											

GHS Signal Word:
WARNING

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GHS Hazard Pictograms:



GHS Classifications:

Health, Skin corrosion/irritation, 2

Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Phrases:

H315 - Causes skin irritation

H319 - Causes serious eye irritation

GHS Precautionary Statements:

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P332+313 - If skin irritation occurs: Get medical advice/attention.

P337+313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
7732-18-5	85-87%	Water
N/A	13-15%	Trade Secret*

*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.

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4 FIRST AID MEASURES

- Inhalation:** Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.
- Skin Contact:** Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses if present and easy to do so. If eye irritation persists, obtain medical attention.
- Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless instructed to do so. Give 3-4 glasses of water or milk to dilute stomach contents. Never give anything by mouth to an unconscious person. Contact a Poison Control Center for advice. If symptoms develop and/or persist, obtain medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

5 FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** DNA
- Flash Point Method:** DNA
- Burning Rate:** No data available
- Autoignition Temp:** No data available
- LEL:** DNA
- UEL:** DNA

Extinguishing Media:

Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Carbon Oxides
Nitrogen Oxides (NOx)

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.
Gives off Hydrogen by reaction with metals. Hydrogen is flammable and potentially explosive. Use caution.
Use water spray to cool unopened containers.
See Section 7 for more information on safe handling.

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See Section 8 for more information on personal protection equipment. See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

- Use personal protective equipment.
- Keep from contacting skin or eyes.
- Avoid breathing vapors, mist or gas.
- Ensure adequate ventilation.
- Evacuate personnel to safe areas.

Environmental Precautions:

- Prevent further release (leakage/spillage) if safe to do so.
- Do not allow product to enter drains.
- Do not allow to drain to environment.

Methods and Materials for Containments and Cleaning Up:

- Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
- Neutralizing agent like Sodium Bicarbonate may also be used to absorb/neutralize any spilled material.

- Place contaminated material into suitable, closed containers for disposal.
- Dispose of contaminated material according to Section 13.
- After spillage has been collected, area may be flushed with water or wet-brushed. Ensure adequate ventilation.

Reference to Other Sections:

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

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7 HANDLING AND STORAGE

Handling Precautions:

Avoid breathing vapors or mist.
Avoid contact with eyes, skin, or clothing.
Keep containers closed when not in use.
Use approved, original containers only.
Do not use corrosive sensitive materials for handling this product (metals, etc.).
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.

Storage Requirements:

Ensure adequate ventilation.
Keep container tightly closed.
Do not store in direct sunlight.
Store above freezing point.
Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, Potassium tartrate, Alkaline earth Carbonates and Bicarbonates, Acetates and Sulfides.

S EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Eye/face protection:

Personal Protective Equip:

When using material use safety goggles and gloves according to HMIS PP, B. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:

Handle with gloves made from Neoprene, Nitrile, PVC or Buna rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:

Chemically resistant gloves and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:

Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

Control of environmental exposure:

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Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Contains no substances with occupational exposure limits values.

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque, Blue Liquid	Odor:	Characteristic
Physical State:	Liquid	Molecular Formula:	MIXTURE
Odor Threshold:	Not determined	Solubility:	100%
Particle Size:	Not determined	Softening Point:	Not determined
Spec Grav./Density:	1.200 g/ml (10.01 lbs/gal)	Percent Volatile:	0%
Viscosity:	Not determined	Heat Value:	Not determined
Sat. Vap. Conc.:	Not determined	Freezing/Melting Pt.:	< 0.0 °C (32.0 °F)
Boiling Point:	> 100.0 °C (212.0 °F)	Flash Point:	DNA
Flammability:	(solid, gas): Not flammable	Octanol:	Not determined
Partition Coefficient:	Not determined	Vapor Density:	(air = 1): Not determined
Vapor Pressure:	(mm Hg @ 20 °C): Not determined	VOC:	DNA
pH:	@ 100%: < 2.0	Bulk Density:	Not determined Not
Evap. Rate:	(N-Butyl Acetate = 1): Not determined	Auto-Ignition Temp:	determined
Molecular weight:	MIXTURE	UFL/LFL:	Not determined
Decomp Temp:	Not determined		

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.

Conditions to Avoid: Incompatibilities, flames, ignition sources.

Materials to Avoid: Strong acids, strong bases, strong oxidizing agents, strong reducing agents, Potassium tartrate, Alkaline earth Carbonates and Bicarbonates, Acetates and Sulfides.

Hazardous Decomposition: Carbon Oxides, Nitrogen Oxides (NOx) and Phosphorous Oxides.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Trade Secret

CAS No(s): N/A

Acute Toxicity:

LD50 Oral - Rat: 1,878 mg/kg

LD50 Oral - Mouse: 5,040 mg/kg

LDL Oral - Rabbit: 7,000 mg/kg

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LC50 Dermal - Rat: 2,000 mg/kg

Skin Corrosion/Irritation: Rabbit skin - Mild skin irritation.

Serious Eye Damage/Eye Irritation: Rabbit eyes - Irritating to eyes.

Respiratory or Skin Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ Cell Mutagenicity: No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure: No data available.

Specific Target Organ Toxicity - Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information:

Component: Citric acid; RTECS: GE7350000

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ECOLOGICAL INFORMATION

Component(s): Trade Secret

CAS No(s): N/A

Toxicity:

Toxicity to fish:

LC50 - Lepomis macrochirus (Bluegill Sunfish): 100-200 mg/l (69 h)

LC50 - Pimephales promelas (Fathead Minnow): 150-250 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water Flea): 340 mg/l (48 h)

Persistence and Degradability: No data available.

Bioaccumulative potential: No data available.



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Mobility in Soil: No data available.

Results of PBT and vPvB assessment: Not required/conducted.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT (US)

Non-regulated material, liquid

IMDG

Non-regulated material, liquid

IATA

Non-regulated material, liquid



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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Trade Secret (N/A 13-15%) NJHS, PA, SARA311/312, TSCA

REGULATORY KEY DESCRIPTIONS

NJHS = NJ Right-to-Know Hazardous Substances
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
TSCA = Toxic Substances Control Act

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OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that PERIODIC PRODUCTS, INC. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of PERIODIC PRODUCTS INC's control, PERIODIC PRODUCTS INC. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.