

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200) / GHS Compliance

SECTION 1: IDENTIFICATION

Product Name: Water Spot Remover

Manufacturer: Genesis Chemical
4626 Eagle Falls Pl, Tampa, FL 33619

Emergency Contact: **VelocityEHS:** 1-800-255-3924

Recommended Use: Industrial / Commercial Removal of Hard Water Spots and Mineral Deposits.

Restrictions on Use: Use only as directed. Do not mix with bleach or other chlorinated compounds.

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Skin Corrosion / Irritation – Category 1B
Serious Eye Damage / Eye Irritation – Category 1
Corrosive to Metals – Category 1
Acute Toxicity, Oral – Category 4

Signal Word: **DANGER**

Hazard Statements: **H314:** Causes severe skin burns and eye damage.
H290: May be corrosive to metals.
H302: Harmful if swallowed.

Precautionary Statements: **Prevention:**

- **P260:** Do not breathe mists or vapors.
- **P264:** Wash hands and exposed skin thoroughly after handling.
- **P270:** Do not eat, drink, or smoke when using this product.
- **P280:** Wear protective gloves, protective clothing, eye protection, and face protection.
- **P234:** Keep only in original packaging.

Response:

- **P301+P330+P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- **P303+P361+P353:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- **P363:** Wash contaminated clothing before reuse.
- **P304+P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
- **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- **P390:** Absorb spillage to prevent material damage.

Storage & Disposal:

- **P405+P406:** Store locked up in a corrosion-resistant container with a resistant inner liner.

- **P501:** Dispose of contents/container in accordance with local, regional, and national regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Orthophosphoric Acid	7664-38-2	15% – 25%
Nonylphenol Ethoxylate (9-mol)	127087-87-0	5% – 10%
Ethylene Glycol Monobutyl Ether	111-76-2	2% – 5%

SECTION 4: FIRST-AID MEASURES

Inhalation:	Remove person to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Seek immediate medical attention.
Skin Contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Seek immediate medical evaluation for chemical burns.
Eye Contact:	Immediately flush eyes with gently flowing water for at least 15–20 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek urgent medical assistance from an ophthalmologist.
Ingestion:	Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Call a physician or poison control center immediately.
Symptoms/Effects:	Causes severe chemical burns to skin and eyes. May cause permanent eye damage and irreversible blindness. Vapors are highly irritating to the respiratory tract.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Coordinate firefighting measures to surrounding fire conditions. Do not use solid water streams.
Specific Hazards:	Reacts with most metals to form highly flammable hydrogen gas, creating an explosion hazard. Corrosive mists may form under fire conditions. Hazardous combustion products include phosphorus oxides and carbon oxides.
Firefighters Protective Equipment:	Wear a self-contained breathing apparatus (SCBA) and full chemical-resistant protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate personal protective equipment (see Section 8). Avoid breathing vapors or mists. Ensure adequate ventilation. Evacuate unnecessary personnel.
Environmental Precautions:	Prevent material from entering waterways, sewers, basements, or confined spaces.
Clean-up Methods:	

Soak up with inert absorbent material (sand, silica gel, acid binder, sawdust). Neutralize carefully with basic material like lime or soda ash. Place in a designated container for proper hazardous waste disposal.

SECTION 7: HANDLING AND STORAGE

Safe Handling:	Do not breathe mists or vapors. Avoid contact with skin, eyes, and clothing. Wear personal protective equipment. Wash thoroughly after handling. Do not mix with other chemicals (especially chlorine bleach).
Storage Conditions:	Store in original, corrosion-resistant container. Keep container tightly closed in a dry, cool, and well-ventilated area. Keep locked up. Store away from strong bases and reactive metals.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	Orthophosphoric Acid (CAS 7664-38-2): OSHA PEL: 1 mg/m ³ TWA; ACGIH TLV: 1 mg/m ³ TWA, 3 mg/m ³ STEL. Ethylene Glycol Monobutyl Ether (CAS 111-76-2): OSHA PEL: 50 ppm TWA (Skin); ACGIH TLV: 20 ppm TWA.
Engineering Controls:	Use local exhaust ventilation or engineering controls to maintain airborne levels below exposure limits. Ensure eyewash stations and safety showers are close to the workstation.
Personal Protective Equipment (PPE):	Eye/Face: Wear chemical splash goggles and a full-face shield to protect against splashing. Skin: Wear acid-resistant protective gloves (nitrile, neoprene, or PVC) and a chemical-resistant apron or suit. Respiratory: If exposure limits are exceeded, use a NIOSH-approved respirator equipped with organic vapor/acid gas cartridges.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid	Odor:	Acidic
pH:	< 2 (Highly Acidic)	Boiling Point:	Not determined
Flash Point:	> 200°F (> 93.3°C)	Solubility in Water:	Completely miscible
Relative Density:	> 1.0 (Heavier than water)	Stability:	Stable under normal conditions

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Corrosive to metals. Reacts exothermically with bases.
Possibility of Hazardous Reactions:	Contact with soft metals (aluminum, zinc, mild steel) can generate explosive hydrogen gas. Mixing with chlorine bleach releases toxic chlorine gas.
Incompatible Materials:	Strong bases, strong oxidizing agents, chlorine bleach, and reactive soft metals.
Hazardous Decomposition:	Phosphorus oxides and carbon oxides under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure:	Skin contact, eye contact, inhalation, ingestion.
Acute Health Effects:	Inhalation: Corrosive to mucous membranes. Skin / Eye: Causes painful chemical burns, tissue necrosis, and potential blindness. Ingestion: Severe damage to mouth, throat, and stomach. Harmful if swallowed.
Chronic Effects:	Ethylene Glycol Monobutyl Ether can be absorbed through skin; chronic overexposure to large quantities can impact the blood system, liver, and kidneys.
Carcinogenicity:	None of the ingredients are listed as standard known carcinogens by IARC, NTP, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Large quantities can lower water pH, which is harmful to aquatic life. Nonylphenol Ethoxylate is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
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SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	This product meets the RCRA criteria for a corrosive hazardous waste (characteristic code D002) due to low pH. Neutralize cautiously and handle via a licensed chemical disposal facility according to state, local, and federal regulations.
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SECTION 14: TRANSPORT INFORMATION

UN Number:	UN1805	Proper Shipping Name:	PHOSPHORIC ACID SOLUTION
Hazard Class:	8 (Corrosive)	Packing Group:	III
Special Notes:	Marine Pollutant (due to Nonylphenol Ethoxylate concentration). Check limited quantity exceptions for volumes under 5 Liters.		

SECTION 15: REGULATORY INFORMATION

TSCA Status:	All components are listed on the TSCA Inventory or are exempt.
SARA 313 / 311 / 312:	Ethylene Glycol Monobutyl Ether (Glycol Ethers category) is subject to reporting thresholds. Classification: Acute Health Hazard.
CA Proposition 65:	This product contains trace structural impurities of Ethylene Oxide, known to the State of California to cause cancer and birth defects.

SECTION 16: OTHER INFORMATION

NFPA 704 Rating:	<table><tr><td>Health: 3</td><td>Fire: 0</td><td>Reactivity: 0</td></tr></table>	Health: 3	Fire: 0	Reactivity: 0
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Disclaimer:

The information provided in this Safety Data Sheet is accurate to the best of our current knowledge, information, and belief at the date of publication. It is given only as safe handling, use, processing, storage, transport, and disposal guidance.