SAFETY DATA SHEET

elements Organic Acid Restroom Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: elements Organic Acid Restroom Cleaner
GENERAL USE: Cleaning toilets, urinals, ceramic tile and restroom fixtures.
PRODUCT DESCRIPTION: Organic Acid Restroom Cleaner
PRODUCT CODE: E03
CHEMICAL FAMILY: Acid/detergent blend

MANUFACTURER
MISCO Products Corporation
1048 Stinson Drive
Reading, PA 19605
Emergency Phone: 610-926-4106
Customer Service: 800-548-4568
Transportation: 800-548-4568

24 HR. EMERGENCY TELEPHONE NUMBERS
CHEM-TEL (Medical and Transportation): 800-255-3924
POISON CONTROL CENTER (Medical): 800-222-1222

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
- Skin Corrosion, Category 1B
- Serious Eye Damage, Category 1
Physical:
- Flammable Liquids, Category 4

GHS LABEL

Corrosion

SIGNAL WORD: DANGER

HAZARD STATEMENTS
H318: Causes serious eye damage.
H314: Causes severe skin burns and eye damage.
H227: Combustible liquid.

PRECAUTIONARY STATEMENT(S)

Prevention:
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P260: Do not breathe mist/vapours/spray.
P264: Wash thoroughly after handling.
P234: Keep only in original container.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Response:
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P390: Absorb spillage to prevent material damage.
P370+P378: In case of fire: Use dry chemical, alcohol-resistant foam for extinction.

Storage:
P405: Store locked up.
P406: Store in corrosive resistant plastic container or a steel container with a resistant inner liner.
P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:
P501: Dispose of contents/container in accordance with local, state and federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Green liquid

IMMEDIATE CONCERNS: Causes irreversible eye damage and skin burns.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive to the eyes and may cause severe damage including blindness.

SKIN: Contact causes severe skin irritation and possible burns.

SKIN ABSORPTION: None Expected.

INGESTION: Harmful if swallowed.

INHALATION: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: No known significant effects or critical hazards.

CARCINOGENICITY: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards.

ROUTES OF ENTRY: Eye, skin, ingestion.

WARNING CAUTION LABELS: Corrosive

PHYSICAL HAZARDS: None Expected.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroxyacetic Acid</td>
<td>5 - 10</td>
<td>79-14-1</td>
</tr>
<tr>
<td>Alkyl Polyglucosides</td>
<td>10 - 15</td>
<td>68515-73-1</td>
</tr>
<tr>
<td>Propylene Glycol n-butyl Ether</td>
<td>10 - 15</td>
<td>5131-66-8</td>
</tr>
<tr>
<td>Dye</td>
<td>&lt; 0.1</td>
<td>N/A</td>
</tr>
<tr>
<td>Water</td>
<td>40 - 45</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe burning sensation, damage marked by burns.

SKIN: Burning sensation, redness.
**INGESTION:** Irritation of mouth, throat, along with stomach upset, vomiting.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**ACUTE TOXICITY:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**CHRONIC EFFECTS:** Not Established

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

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### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** IIIA (140-200°F)

**GENERAL HAZARD:** Combustible Liquid

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide from combustion

**EXPLOSION HAZARDS:** Fire exposed containers may burst due to increased pressure from heat.

**FIRE FIGHTING PROCEDURES:** Keep fire exposed containers cool with water stream or mist.

**FIRE FIGHTING EQUIPMENT:** Not Available

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating gases and vapors.

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### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid walking in product. Wipe up or otherwise flush small spills to sanitary sewer.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

**ENVIRONMENTAL PRECAUTIONS**

- **WATER SPILL:** Avoid discharges into open waterways.
- **LAND SPILL:** Avoid discharge to soil.
- **AIR SPILL:** NA = Not Applicable

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

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### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Close container after use.

**HANDLING:** Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

**STORAGE:** Store in closed container in an area inaccessible to children.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>OSHA PEL</strong></td>
<td><strong>Supplier OEL</strong></td>
</tr>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Hydroxyacetic Acid</td>
<td>TWA</td>
<td>NL</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>NL</td>
</tr>
<tr>
<td>Propylene Glycol n-butyl Ether</td>
<td>TWA</td>
<td>50</td>
</tr>
</tbody>
</table>
PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles.

SKIN: Rubber or other chemical resistant gloves.

RESPIRATORY: A respirator is not needed under normal and intended conditions of product use.

WORK HYGIENIC PRACTICES: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Solvent, characteristic

ODOR THRESHOLD: Not Established

COLOR: Green

pH: 2.0 to 3.0

PERCENT VOLATILE: >70

FLASH POINT AND METHOD: ~ 87.8°C (190°F)

FLAMMABLE LIMITS: Not established to Not established

AUTOIGNITION TEMPERATURE: NA = Not Applicable

VAPOR PRESSURE: < 20 mm Hg at (68°F)

VAPOR DENSITY: 1 Air = 1

BOILING POINT: 212°F; 100°C

FREEZING POINT: 32°F; 0°C

MELTING POINT: Not Available

THERMAL DECOMPOSITION: Not Available

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: (Water =1) 1.0

DENSITY: 8.79

SPECIFIC GRAVITY: ~ 1.053 grams/ml.

VISCO兴: Water thin.

(VOC): 10.000 % by weight

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

INCOMPATIBLE MATERIALS: Strong alkalis, oxidizers, chlorine Bleach

11. TOXICOLOGICAL INFORMATION

ACUTE
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD_{50} (rat)</th>
<th>DERMAL LD_{50} (rabbit)</th>
<th>INHALATION LC_{50} (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroxyacetic Acid</td>
<td>2040 mg/kg (rat)</td>
<td>Not available</td>
<td>3.6 mg/l (Rat), Aerosol</td>
</tr>
<tr>
<td>Alkyl Polyglucosides</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>&gt; 5000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol n-butyl Ether</td>
<td>2124 to 2700 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

**EYES:** Not Established

**DERMAL LD_{50}:** Not Established

**ORAL LD_{50}:** Not Established

**INHALATION LC_{50}:** Not Established

**EYE EFFECTS:** Corrosive to eyes. Permanent damage may occur.

**SKIN EFFECTS:** Corrosive to skin.

**CARCINOGENICITY**

IARC: No listed substance

**CORROSIVITY:** Corrosive

**SENSITIZATION:** Not Established

**GENETIC EFFECTS:** No known significant effects or critical hazards.

**REPRODUCTIVE EFFECTS:** No known significant effects or critical hazards.

**TARGET ORGANS:** No known significant effects or critical hazards.

**MUTAGENICITY:** No known significant effects or critical hazards.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** Not Established

**AQUATIC TOXICITY (ACUTE)**

96-HOUR LC_{50}: Not Established

**Notes:** Practically nontoxic

**CHEMICAL FATE INFORMATION:** Not yet Determined

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Small amounts (less than 1 gallon) may be diluted with copious amounts of water and disposed of into sanitary sewer.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**PRODUCT DISPOSAL:** Small quantities (less than 1 gallon) of used material may be flushed to sanitary sewer with copious amounts of water. Larger quantities must be disposed of by a licensed disposal company.

**EMPTY CONTAINER:** Rinse container with clear water. Offer container for recycling, or dispose of in trash.

**RCRA/EPA WASTE INFORMATION:** Corrosive

**RCRA HAZARD CLASS:** C

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Cleaning Compound, not regulated (for US domestic shipment only)

**AIR (ICAO/IATA)**
15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Health - Acute

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

313 REPORTABLE INGREDIENTS: No listed substance

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: No listed substance

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: No listed substance

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.

CALIFORNIA PROPOSITION 65: No listed substance

CARCINOGEN: No listed substance

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

HMIS RATING

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

NFPA CODES

- 0
- 0
- 3
- 3

MANUFACTURER DISCLAIMER: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.