Section 1 - Product Information

Product Name: Surgistain
Product Code: 34572
Product Use: Medical Instrument Cleaning
Supplier: The Ruhof Corporation
Information Phone: 1-800-537-8463
Emergency Contact: 1-800-424-9300 (Chemtrec)
Address: 393 Sagamore Avenue Mineola NY 11501

Section 2 - Hazards Identification

GHS Classification Skin Corrosion Cat 1, Eye Damage Cat 1

Section 2.1 Label Elements

Hazard Pictograms

Signal Word: Danger

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

Precautionary Statements:
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - In case of inadequate ventilation wear respiratory protection
P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
P501 - Dispose of contents/container to an approved waste disposal plant

Section 3 - Composition/Information on Ingredients

Chemical Name | CAS-No | Weight % | Classification
--- | --- | --- | ---
Phosphoric Acid | 7664-38-2 | <20 | C; R35

4. FIRST AID MEASURES

General Advice
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required.

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Inhalation
Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

Ingestion
Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases None in particular.

Explosion Data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up
Sorb up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Reference to other sections: See Section 12 for additional

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Specific end use(s) Exposure Scenario No information available. Other Guidelines No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Exposure Limits EU</th>
<th>The United Kingdom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid 7664-38-2</td>
<td>TWA: 1 mg/m³ STEL: 2 mg/m³</td>
<td>TWA: 2 mg/m³ STEL: 2 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Exposure controls
These measures are suggested based on typical use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work. Eye protection: Wear eye protection appropriate to the process according to BS EN 166. Hand protection: Wear appropriate glove according to specific risk assessments. Environmental protection: Prevent mixture from entering water courses. Body protection: As necessary to prevent contact. Respiratory protection: Use in a well-ventilated area, avoid breathing spray mist, wear a protective mask according to EN149, if necessary.

Other protection: Personal protective equipment: Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor</th>
<th>Appearance</th>
<th>pH</th>
<th>Melting Point/Range</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Mild</td>
<td>Clear</td>
<td>&gt;1.5</td>
<td>No data available</td>
<td>&gt;100°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flash Point</th>
<th>Flammability Limits</th>
<th>Vapor Pressure</th>
<th>Specific Gravity</th>
<th>Water Solubility</th>
<th>Flammable Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>1.2</td>
<td>Soluble</td>
<td>Not Flammable</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>No data available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Hazardous polymerization does not occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>None known based on information supplied.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Alkalis</td>
</tr>
</tbody>
</table>

| Hazardous decomposition products | Hydrogen, Phosphorous oxides. |

### 11. TOXICOLOGICAL INFORMATION

**Inhalation**
May cause irritation of respiratory tract.

**Eye Contact**
Corrosive to eyes. Causes serious eye damage.

**Skin Contact**
May cause irritation and/or may cause burns.

**Ingestion**
Ingestion of corrosive substances can cause burns of the upper digestive and respiratory tract.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric Acid</td>
<td>1530 mg/kg (Rat)</td>
<td>2730 mg/kg (Rabbit)</td>
<td>850 mg/m3 (Exposure time: 1h)</td>
</tr>
</tbody>
</table>

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

**Carcinogenicity**
Contains no ingredients above reportable quantities listed as a carcinogen.

**Chronic Toxicity**
Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.

**Target Organ Effects**
Respiratory system. Eyes. Skin.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Phosphoric acid (7664-38-2)

- LC50 fishes 1: 3-3.5 mg/l (Exposure time: 96h – Species: Gambusia affinis)
- EC50 Daphnia 1: 4.6 mg/l (Exposure time: 12h – Species: Daphnia magna)

**Persistence and Degradability**
No information available.

**Bioaccumulation**
Not established.

**Other Adverse Effects**
No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**
Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging**
Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT**
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 15. REGULATORY INFORMATION

**EU Legislation**
The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Am ex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006

**National Regulations**

### 16. OTHER INFORMATION

Full text of H-phrase, Sections 2 H-290 May be corrosive to metal; H302 Harmful if swallowed; H314 Causes severe skin burns and eye damage. Section 3 R35 Causes severe burns

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**Prepared By**
The Ruhof Corporation
393 Sagamore Avenue
Mineola, NY 11501

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**Revision Note** Rev_02

**General Disclaimer**
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**