



# Renu-Klenz™

## Neutral pH Cleaner

### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 03/27/2015

Version: 1.0

#### SECTION 1: Identification

##### 1.1. Product Identifier

Product Form: Mixture  
Product Name: Renu-Klenz™  
Neutral pH Cleaner  
Product Code: 1777

##### 1.2. Intended Use of the Product

Use of the substance/mixture: Neutral pH Cleaner.  
For professional use only.

##### 1.3. Name, Address, and Telephone of the Responsible Party

Company  
STERIS Corporation  
Official Mailing Address:  
P.O. Box 147  
St. Louis, MO 63166 USA

Street Address:  
7501 Page Avenue  
St. Louis, MO 63133 USA

Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)  
web: [www.steris.com](http://www.steris.com)  
email: [asksteris\\_msds@steris.com](mailto:asksteris_msds@steris.com)

##### 1.4. Emergency Telephone Number

Emergency Number : 1-314-535-1395 or CHEMTREC: 1-800-424-9300

#### SECTION 2: Hazards Identification

##### 2.1. Classification of the Substance or Mixture

Classification (GHS-US)  
Not classified

##### 2.2. Label Elements

GHS-US Labeling  
No labeling applicable

##### 2.3. Other Hazards

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

##### 2.4. Unknown Acute Toxicity (GHS-US)

Not applicable.

#### SECTION 3: Composition/Information On Ingredients

##### 3.1. Substance

Not applicable

##### 3.2. Mixture

| Name         | Product identifier | %     | Classification (GHS-US)                                                                                                                                                                                       |
|--------------|--------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formaldehyde | (CAS No) 50-00-0   | 0.002 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:gas),<br>H331<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Carc. 2, H351<br>Aquatic Acute 2, H401 |

Full text of H-phrases: see section 16

#### SECTION 4: First Aid Measures

##### 4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. If you feel unwell, seek medical advice.

First-aid Measures After Skin Contact: Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Seek medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops or persists.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: None expected under normal conditions of use.  
Chronic Symptoms: None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: Fire-Fighting Measures

#### 5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.  
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.  
Explosion Hazard: Product is not explosive.  
Reactivity: Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.  
Firefighting Instructions: Do not allow run-off from fire fighting to enter drains or water sources. Do not breathe fumes from fires or vapors from decomposition. Use water spray or fog for cooling exposed containers.  
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.  
Hazardous Combustion Products: None known.

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure. Avoid breathing (vapor, mist, spray).

##### 6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).  
Emergency Procedures: Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.  
Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection.

### SECTION 7: Handling And Storage

#### 7.1. Precautions for Safe Handling

Precautions for Safe Handling: Avoid all unnecessary exposure. Wear recommended personal protective equipment.  
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.  
Incompatible Products: Strong acids. Strong bases. None known.

#### 7.3. Specific End Use(s) No additional information available

For professional use only. Neutral pH Cleaner.

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control Parameters

For substances listed in Section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Formaldehyde (50-00-0) |                           |                              |
|------------------------|---------------------------|------------------------------|
| USA ACGIH              | ACGIH Ceiling (ppm)       | 0.3 ppm                      |
| USA OSHA               | OSHA PEL (TWA) (ppm)      | 0.75 ppm                     |
| USA OSHA               | OSHA PEL (STEL) (ppm)     | 2 ppm (see 29 CFR 1910.1048) |
| USA NIOSH              | NIOSH REL (TWA) (ppm)     | 0.016 ppm                    |
| USA NIOSH              | NIOSH REL (ceiling) (ppm) | 0.1 ppm                      |
| USA IDLH               | US IDLH (ppm)             | 20 ppm                       |
| Alberta                | OEL Ceiling (mg/m³)       | 1.3 mg/m³                    |

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|                         |                     |           |
|-------------------------|---------------------|-----------|
| Alberta                 | OEL Ceiling (ppm)   | 1 ppm     |
| Alberta                 | OEL TWA (mg/m³)     | 0.9 mg/m³ |
| Alberta                 | OEL TWA (ppm)       | 0.75 ppm  |
| British Columbia        | OEL Ceiling (ppm)   | 1 ppm     |
| British Columbia        | OEL TWA (ppm)       | 0.3 ppm   |
| Manitoba                | OEL Ceiling (ppm)   | 0.3 ppm   |
| New Brunswick           | OEL STEL (ppm)      | 1.5 ppm   |
| New Brunswick           | OEL TWA (ppm)       | 0.5 ppm   |
| Newfoundland & Labrador | OEL Ceiling (ppm)   | 0.3 ppm   |
| Nova Scotia             | OEL Ceiling (ppm)   | 0.3 ppm   |
| Nunavut                 | OEL Ceiling (mg/m³) | 2.4 mg/m³ |
| Nunavut                 | OEL Ceiling (ppm)   | 2 ppm     |
| Northwest Territories   | OEL Ceiling (mg/m³) | 2.4 mg/m³ |
| Northwest Territories   | OEL Ceiling (ppm)   | 2 ppm     |
| Ontario                 | OEL Ceiling (ppm)   | 1.5 ppm   |
| Ontario                 | OEL STEL (ppm)      | 1.0 ppm   |
| Prince Edward Island    | OEL Ceiling (ppm)   | 0.3 ppm   |
| Québec                  | PLAFOND (mg/m³)     | 3 mg/m³   |
| Québec                  | PLAFOND (ppm)       | 2 ppm     |
| Saskatchewan            | OEL Ceiling (ppm)   | 0.3 ppm   |
| Yukon                   | OEL Ceiling (mg/m³) | 3 mg/m³   |
| Yukon                   | OEL Ceiling (ppm)   | 2 ppm     |

#### 8.2. Exposure Controls

Appropriate Engineering Controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment : Not generally required. The use of personal protective equipment may be necessary as conditions warrant. Gloves. Protective goggles. Protective clothing.



Materials for Protective Clothing : Chemically resistant materials and fabrics.  
 Hand Protection : Wear chemically resistant protective gloves.  
 Eye Protection : Chemical goggles or safety glasses.  
 Skin and Body Protection : Wear suitable protective clothing.  
 Respiratory Protection : If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.  
 Other Information : When using, do not eat, drink or smoke.

## SECTION 9: Physical And Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid  
 Appearance : Straw Clear Liquid  
 Odor : Mild Chemical  
 Odor Threshold : No data available  
 pH : Concentrate: 6.9 1%: 7.3  
 Evaporation rate : No data available  
 Melting Point : Not applicable  
 Freezing Point : No data available  
 Boiling Point : No data available  
 Flash Point : Not applicable  
 Auto-ignition Temperature : Not applicable  
 Decomposition Temperature : Not applicable  
 Flammability (solid, gas) : Not applicable  
 Vapor Pressure : No data available  
 Relative Vapor Density at 20 °C : No data available  
 Specific Gravity : 1.11 g/ml  
 Solubility : Complete  
 Partition coefficient: n-octanol/water : No data available  
 Viscosity : No data available  
 Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

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Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

#### 9.2. Other Information

No additional information available

### SECTION 10: Stability And Reactivity

#### 10.1 Reactivity:

Hazardous reactions will not occur under normal conditions.

#### 10.2 Chemical Stability:

Stable under normal conditions.

#### 10.3 Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

#### 10.4 Conditions to Avoid:

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

#### 10.5 Incompatible Materials:

None known.

#### 10.6 Hazardous Decomposition Products:

None known.

### SECTION 11: Toxicological Information

#### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| Formaldehyde (50-00-0) |                |
|------------------------|----------------|
| LD50 Oral Rat          | 100 mg/kg      |
| LD50 Dermal Rat        | 270 mg/kg      |
| ATE (Gases)            | 700.00 ppmV/4h |

Skin Corrosion/Irritation: Not classified pH: Concentrate: 6.9 1%: 7.3  
Serious Eye Damage/Irritation: Not classified pH: Concentrate: 6.9 1%: 7.3  
Respiratory or Skin Sensitization: Not classified  
Germ Cell Mutagenicity: Not classified  
Teratogenicity: Not classified  
Carcinogenicity: Not classified

| Formaldehyde (50-00-0)                   |                          |
|------------------------------------------|--------------------------|
| IARC group                               | 1                        |
| National Toxicology Program (NTP) Status | Known Human Carcinogens. |

Reproductive Toxicity: Not classified  
Specific Target Organ Toxicity (Single Exposure): Not classified  
Specific Target Organ Toxicity (Repeated Exposure): Not classified  
Aspiration Hazard: Not classified  
Chronic Symptoms: None expected under normal conditions of use.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

| Formaldehyde (50-00-0) |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| LC50 Fish 1            | 22.6 - 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1         | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                |
| LC 50 Fish 2           | 1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])              |
| EC50 Daphnia 2         | 11.3 - 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])               |

#### 12.2. Persistence and Degradability

| Renu-Klenz™<br>Neutral pH Cleaner |                  |
|-----------------------------------|------------------|
| Persistence and Degradability     | Not established. |

#### 12.3. Bioaccumulative Potential

| Renu-Klenz™<br>Neutral pH Cleaner |                  |
|-----------------------------------|------------------|
| Bioaccumulative Potential         | Not established. |
| Formaldehyde (50-00-0)            |                  |
| Log Pow                           | 0.35 (at 25 °C)  |

#### 12.4. Mobility in Soil

No additional information available

#### 12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

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#### SECTION 13: Disposal Considerations

##### 13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

#### SECTION 14: Transport Information

##### 14.4 In Accordance with TDG

Not regulated for transport  
In Accordance With ICAO/IATA/IMDG/DOT

##### 14.1. UN Number

Not regulated for transport

##### 14.2. UN Proper Shipping Name

Not regulated for transport

##### 14.3. Additional Information

Not regulated for transport  
**Transport by Sea** Not regulated for transport  
**Air Transport** Not regulated for transport

#### SECTION 15: Regulatory Information

##### 15.1 US Federal Regulations

###### Formaldehyde (50-00-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on the United States SARA Section 302  
Listed on United States SARA Section 313

|                                                    |                                                                                   |
|----------------------------------------------------|-----------------------------------------------------------------------------------|
| SARA Section 302 Threshold Planning Quantity (TPQ) | 500                                                                               |
| SARA Section 311/312 Hazard Classes                | Delayed (chronic) health hazard<br>Immediate (acute) health hazard<br>Fire hazard |
| SARA Section 313 - Emission Reporting              | 0.1 %                                                                             |

##### 15.2 US State Regulations

###### Formaldehyde (50-00-0)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances  
U.S. - Pennsylvania - RTK (Right to Know) List

##### 15.3. Canadian Regulations

###### Formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

#### SECTION 16: Other Information, Including Date Of Preparation Or Last Revision

Revision Date : 03/27/2015  
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

|                               |                                                                |
|-------------------------------|----------------------------------------------------------------|
| Acute Tox. 3 (Dermal)         | Acute toxicity (dermal) Category 3                             |
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3                     |
| Acute Tox. 3 (Oral)           | Acute toxicity (oral) Category 3                               |
| Aquatic Acute 2               | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Carc. 2                       | Carcinogenicity Category 2                                     |
| Eye Dam. 1                    | Serious eye damage/eye irritation Category 1                   |
| Skin Corr. 1B                 | Skin corrosion/irritation Category 1B                          |
| Skin Sens. 1                  | Skin sensitization Category 1                                  |
| H301                          | Toxic if swallowed                                             |
| H311                          | Toxic in contact with skin                                     |
| H314                          | Causes severe skin burns and eye damage                        |
| H317                          | May cause an allergic skin reaction                            |
| H318                          | Causes serious eye damage                                      |
| H331                          | Toxic if inhaled                                               |
| H351                          | Suspected of causing cancer                                    |
| H401                          | Toxic to aquatic life                                          |

# Renu-Klenz™

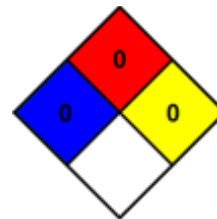
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|                    |                                                                                                           |
|--------------------|-----------------------------------------------------------------------------------------------------------|
| NFPA Health Hazard | : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials. |
| NFPA Fire Hazard   | : 0 - Materials that will not burn.                                                                       |
| NFPA Reactivity    | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.              |



*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.*

SDS NA, WHMIS, Mex GHS