

# tuttnauer

Sterilization &amp; Infection Control Products

Revised 12/01/2001

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTITY

Common name (used on label) = Chamber Brite  
 (Trade name & synonyms) = Chamber brite- autoclave cleaner- acidic descaler

Chemical family = Acidic salts

### SECTION 2 – INGREDIENTS

Components-hazardous	CAS No.	Threshold limit value (Or other hazard data)
Sodium Gluconate	527-07-1	LD50>1000mg/kg
Citric acid	0077-92-9	LD50>1000mg/kg
Poly ethylene oxid alcohol	28027-38-3	LD50>2000mg/kg

### SECTION 3 – PHYSICAL DATA

Boiling point/range: N/A      Melting point: N/A      Specific gravity: (H2O = 1)  
 Vapor pressure (MM HG): N/A      Vapor density (Air =1): N/A      Solubility in H2O: complete

Appearance and odor: Salts Mixture

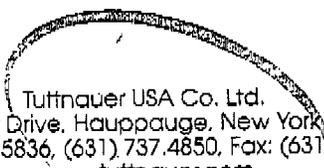
pH: (0.5%): 2.2

### SECTION 4 – FIRE AND EXPLOSION HAZARD

Flash point: Lower: N/A	Flammable limits: Upper: N/A	Auto ignition temp. N/A
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Extinguishing media: Water- Spray	Water- Fog	Water Stream
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Special fighting procedures: Wear self-contained breathing apparatus.  
 Cool fire exposed containers with water.

  
 Tuttnauer USA Co. Ltd.  
 25 Power Drive, Hauppauge, New York 11788  
 Tel: (800) 624.5836, (631) 737.4850, Fax: (631) 737.0720  
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**SECTION 5 – HEALTH HAZARDS**

Permissible exposure limits:

No exposure limit has been established for this mixture.

Emergency first aid procedures:

Ingestion (if swallowed):

**Do not** induce vomiting – give plenty of water or milk – get medical attention.

Dermal:

Wash with soap and water – get medical attention.

Eye contact:

Flush with plenty of water for at least 15 minutes – get medical attention.

If in eyes, immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelid open while flushing.

Inhalation:

Remove to fresh air.

**SECTION 6 – REACTIVITY DATA**

Stability: stable

Conditions contributing to instability: N/A

Hazard rating (NFPA 704M): Extreme high 4    High 3    Moderate 2    Slight 1    Least 0

Health (blue) 2    Flammability (red) 0    Reactivity (yellow) 0

Incompatibility – **AVOID** contact with: Strong alkalis, strong oxidizers.

Hazardous decomposition thermal and other:

Thermal: oxidis of carbon.

Conditions to avoid: see above.

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## SECTION 7 – TOXICITY DATA

Route: N/E Oral: N/E Dermal: N/E Inhalation: N/E

Toxic effects/routes of entry

Eye effects: corrosive

Overexposure will cause extreme burns that may result in permanent damage to the eyes.  
Exposure to low-level concentrations may cause moderate irritation or conjunctivitis.

Skin effects: irritant

Contact with skin may cause moderate to severe irritation. This product tends to remove skin oils, possibly leading to irritation and dermatitis.

Other toxic effects:

This product does not contain any components listed by IARC, NTP, or OSHA as carcinogens.

Target organ toxic:

This product may cause irritation to eyes and skin.

Toxicity comments: N/E

## SECTION 8 – SPILL OR LEAK PROCEDURES

Flush with water    Absorb with sand or inert material    Neutralize    Prevent spread or spill

### **Spill or release procedure:**

- 1) Confine spill.
- 2) Stop leak at source if this can be done safely.
- 3) Be sure area is well ventilated.
- 4) Transfer material into drums for disposal.
- 5) Wash area with water.
- 6) Residual amounts should be flushed to chemical waste treatment.

Absorb with non-combustible material and place residue in DOT approved waste containers. **KEEP OUT** of sewers, storm drains and surface waters.

Consult federal, state or local authorities for proper disposal procedures.

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**SECTION 9- SPECAIL PROTECTION INFORMATION**

Ventilation requirements: local exhaust  
Eye: safety goggles

Eye protection: where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

Hand (glove type): Any non-permeable to product.  
Liquid-proof rubber or neoprene gloves are recommended.

Respirator type: Cartridge  
Filters Mist

Respiratory protection: Avoid breathing mist/dust. Use NIOSH/MSHA approved respiratory protection appropriate to the components, when air exposure limits are exceeded, consult respirator manufacturer to determine appropriate type of equipment. Observe use limitations specified by NIOSH/MSHA or the manufacturer. For emergency and other conditions where exposure limits may be significantly exceeded, use an approved full face, positive pressure, self-contained breathing apparatus or positive pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29CFR.1910.134.

Other protective equipment: Apron

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**INSTRUCTIONS FOR CLEANING TABLE TOP AUTOCLAVES  
WITH CHAMBER BRITE**

CHAMBER BRITE is a cleaning and descaling agent designed specifically for the cleaning and removal of water deposits, oxides and other sediments that are found in steam sterilizers. The material is a combination of acidic salts and additional cleaning materials.

**CLEANING PROCEDURE**

1. Important – all steps in this procedure must be completed without Interruption.
2. **WHEN AUTOCLAVE CHAMBER IS COLD**, Remove instruments and trays from the autoclave.
3. Open the door and spread the contents of a packet in a straight even line along the bottom of the chamber , from back to front.
4. Start a sterilization cycle\* **with water** and **No Drying Cycle** according to the manufacturers instructions. When the cycle is finished exhaust the unit.
5. At the end of the exhaust cycle drain the water from the reservoir.
6. Fill the water reservoir with distilled water.
7. Repeat a sterilization cycle **without** Chamber Brite powder, to remove any excessive dirt in the pipes. Start a sterilization cycle\* **with water** and **No Drying Cycle** according to the manufacturers instructions. When the cycle is finished exhaust the unit.
8. At the end of the exhaust cycle drain the water from the reservoir.
9. Turn the autoclave off and allow chamber to cool.
10. Remove the tray holder; wipe the interior of the chamber with a damp cloth.
11. Fill the reservoir with distilled water or mineral free water only.
12. For M/MK models, turn fill knob to fill position and allow a small amount of water (2-4 ounces) to fill chamber. Remove water from chamber. For all "E" series models, press the manual water fill button and allow a small amount of water (2-4 ounces) to fill chamber. Remove water from chamber.
13. The instrument is ready to use.

**IMPORTANT: DO NOT sterilize instruments during the cleaning process!!!**

CAUTION: Keep out of reach of children. Contains mildly acidic ingredients. Avoid contact with the skin, eyes or clothing. Wash hands well after touching the powder, in the case of eye contact flush with continuous running water for at least 15 minutes. If irritation persists get medical attention. If accidentally swallowed, do not induce vomiting, drink large amounts of water and obtain medical attention. MSDS available upon request.

Use two packets of CHAMBER BRITE in autoclave exceeding a chamber volume of six gallons. Clean every 20 cycles or as needed.

\* Total cycle time for cleaning Tuttnauer "M" series is 30 minutes at 273°F  
Total cycle time for cleaning Tuttnauer "MK" series is 12 minutes at 273° F  
On all Tuttnauer "E" series units, run a standard unwrapped cycle with 3-minute sterilization time at 273° F.

All cycles referenced are from a cold start.