



THERMOGENESIS®

TECHNICAL SERVICES BULLETIN

020-005 Thawer Disinfectant Change
November 1, 2002

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Scope: All THERMOGENESIS CORP. MT202, MT204, and MT210 Plasma Thawers.

Subject: *Disinfectant Change*

Currently, disinfectant tablets or liquid are used for the THERMOGENESIS CORP. Plasma Thawers to reduce bacterial growth between maintenance periods.

THERMOGENESIS CORP. has identified a new liquid disinfectant to be used in all thawer models. Therefore, we are discontinuing the disinfectant tablets and the one-gallon liquid disinfectant previously supplied. The new liquid disinfectant is more effective against bacterial growth and easier to use. The new liquid comes in a 4-oz. bottle and can be ordered from THERMOGENESIS CORP. using part number 5-34-002.

The following table shows the amount of the new liquid disinfectant to use for each thawer model:

| Plasma Thawer Model (110V and 220V) | Amount of New Liquid Disinfectant per Unit | Water Amount per Unit |
|--|---|-----------------------|
| MT202 | 2 ml | 3 gallons |
| MT204 | 5 ml | 8 gallons |
| MT210 | 20 ml | 30 gallons |

Procedure

Upon installation, at the next Quarterly Maintenance, or at the time of replacement of the water, use the new liquid disinfectant according to the concentration amounts listed in the table above. It is no longer necessary to test the concentration level of the disinfectant in your thawer as part of Monthly Maintenance.

Please update this information in your Operator Manual.

If you have any questions, contact THERMOGENESIS CORP. Customer Service at 800-783-8357 (U.S. and Canada) or 916-858-5100 (non-U.S./Canada) for assistance.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade name: **WATERBED CONDITIONER, EPA REG. NO. 42373-1** Item No.: **08540**
 Manufacturer name: Blue Magic Products, Inc.
 Address: P.O. Box 30070 Stockton, CA 95213. USA.
 Business phone: (209) 948-8075 Fax: (209) 465-5048
 Emergency phone: For spill & medical emergency call CHEMTREC @800-424-9300

NFPA Ratings: Health 3 Flammability 0 Reactivity 0
 Date last revised: February 5, 2001

II. HAZARDOUS INGREDIENTS

| Chemical Names | CAS Numbers | Exposure Limits in Air | |
|--|-------------|------------------------|------------------|
| | | ACGIH(TLV) | OSHA(PEL) |
| N-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%)-N, N-dimethyl-N-benzyl ammonium chloride | 68424-85-1 | None established | None established |

III. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE

Inhaled: May cause irritation of mucous membranes.

Contact with skin: Corrosive. Can cause severe irritation and burns on contact.

Contact with eyes: Corrosive. Direct contact can cause severe irritation and burns on contact.

Swallowed: Immediate burning pain in the mouth, throat, abdomen, and severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breath, circulatory shock and/or convulsions. May be fatal.

Overexposure may aggravate existing condition: No effects indicated.

EMERGENCY & FIRST AID PROCEDURES:

Inhaled: If symptoms should develop, move to fresh air. Call a physician.

Skin contact: Wash with large amounts of running water and soap if available, for 15 minutes. Get immediate medical attention. If a physician is not available, flush for additional 15 minutes

Eye Contact: Wash with plenty of water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye. Get immediate medical attention. If a physician is not available, flush for additional 15 minutes.

Swallowed: Give immediately 3-4 glasses of milk (if unavailable, give water). **DO NOT INDUCE VOMITING.** If vomiting occurs, give fluids again. Have physician determine if patient's condition allows for induction of vomiting or evacuation of stomach. Do not give anything by mouth to a convulsing or unconscious person. Get immediate medical attention.

RECOMMENDATIONS TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock and as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injecting of a short acting barbiturate drug. It may be advisable to seek ophthalmologic consultation for eye injury.

SUSPECTED CANCER AGENT? NO, this products ingredients are not listed in federal OSHA, NTP, IARC lists.

IV. PHYSICAL PROPERTIES

Vapor density (air=1): Not known

Specific gravity at 68°F: ~1.01

Appearance and odor: Liquid with characteristic odor.

Solubility in water: Complete

Melting range, °F: ~31°

Evaporation rate, (butyl acetate=1): Not known

pH: 9-10

Vapor pressure, mm Hg at 68°F: Not known

Boiling point at 760 mm Hg, °F: ~213°

V. FIRE AND EXPLOSION DATA

Flash point, °F (give method): None; Pinsky Marten.

Autoignition temperature, °F: Nonflammable

Flammable limits in air, volume %: Not applicable

Fire extinguishing materials: water spray carbon dioxide foam dry chemical
 other

Special fire fighting procedures: Must wear MSHA/NIOSH approved. Self-contained breathing apparatus.

Unusual fire and explosion hazards: Keep filled bottles away from heat and open flames.

VI. REACTIVITY DATA

Stability: Stable Unstable Conditions to avoid: N/A

Incompatibility (materials to avoid): Strong oxidizing agents.

Hazardous decomposition products (including combustion products): N/A

Hazardous polymerization: May Occur Will Not Occur

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill response procedures: Mop the spill. Wash the area with water.

Preparing waste for disposal* (container types, neutralization, etc.): N/A

*NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: N/A Respiratory protection: N/A

Eye protection: Wear safety glasses. Gloves: Wear plastic gloves

Other clothing and equipment: Wash contaminated clothing before use.

Work practices, hygienic practices: Wash hands & clothing with soap & water if contacted.

Other handling and storage requirements: Keep container away from heater. Keep out of reach of children.

Protective measures during maintenance of contaminated equipment: N/A

✓ We believe that the information contained in this M.S.D.S. is current. Since the use of this information and the conditions of the use of the product are not within the control of Blue Magic Products, Inc. it is the users obligation to determine the conditions of safe use of this product. The information herein is given in good faith, but no warranty, expressed or implied is made.

N/A = Not Available or Not Applicable