

M A T E R I A L S A F E T Y D A T A S H E E T

Prescription Treatment® brand Green-Shield® Disinfectant & Algicide

EMERGENCY PHONE NUMBERS:

MEDICAL: 800-225-3320 (PROSAR)

TRANSPORTATION: 800-424-9300 (CHEMTREC)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Prescription Treatment® brand Green-Shield® Disinfectant & Algicide
EPA Reg. No.: 499-368
Product Code(s): 09-2002 (4 x 1 gallon)
09-2003 (30 gallon)
EPA Signal Word: DANGER
Distributed by: Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION INFORMATION

| ACTIVE INGREDIENTS (20%) | % | CAS NO. |
|--|-----|------------|
| n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chloride | 10% | 68391-01-5 |
| n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride | 10% | 68956-79-6 |

| OTHER INGREDIENTS* (80%) | % | CAS NO. |
|--------------------------|-------------|---------|
| Ethyl Alcohol, Denatured | proprietary | 64-17-5 |

* All ingredients may not be listed. Ingredients not listed do not meet the reporting requirements of the OSHA Hazard Communication Standard (HCS) as specified in 29 CFR 1910.1200.

EXPOSURE INFORMATION

| Material | OSHA PEL | | ACGIH TLV | |
|--|----------|-----------|-----------|-----------|
| | STEL | TWA | STEL | TWA |
| n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chloride | NE | NE | NE | NE |
| n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride | NE | NE | NE | NE |
| Ethyl Alcohol, Denatured | NE | 1,000 ppm | NE | 1,000 ppm |

SECTION 3. HAZARDS IDENTIFICATION

NOTES TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SIGNS/SYMPTOMS OF EXPOSURE

Contact with skin or eyes will cause burning, irritation and redness. Prolonged inhalation of vapors causes nausea, loss of motor skills and disorientation. Ingestion of product may cause difficulty in breathing and circulatory shock - concentrate may be fatal.

ROUTES OF ENTRY

Primary: Ingestion **Secondary:** Inhalation **Tertiary:** Skin

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrous oxides and ammoniacal vapors.

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

None known.

SECTION 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. Describe any symptoms and follow the advice given.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye Contact: Hold eyes open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency Telephone Number of Prosar: 800-225-3320 (for medical emergencies.)

SECTION 5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION

Flash Point (TCC): 200° F

Explosibility Limits in Air (% by volume):

Lower (LEL) = 4% Upper (UEL) = 19%

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS

None known.

IN CASE OF FIRE

Extinguisher Media: Water

Special Fire Fighting Procedures: None

SECTION 6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR LEAK

If container begins to leak (through puncture, etc.), eliminate all ignition sources and use absorbent material to collect and contain for salvage or disposal. Ventilate area.

This product contains no Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listed chemicals. Releases of this product are NOT reportable to the National Response Center.

Emergency Telephone Number of Chemtrec: (800) 424-9300 (for transportation spills)

PROTECTIVE EQUIPMENT FOR CLEANUP PERSONNEL

Eyes: Wear full face shield or chemical resistant goggles.

Skin: Wear rubber or neoprene gloves. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Inhalation: Use of a respirator may be appropriate when working with spills in enclosed or confined spaces, or when prolonged exposure to product vapor or spray mist may occur. When using a respirator, wear a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

Other Protective Equipment: Wear protective clothing to prevent repeated or prolonged contact. Eye wash station and safety shower should be near work area.

WASTE DISPOSAL METHOD

Do not contaminate water, food or feed by storage or disposal of wastes. Take full or leaking containers to a local disposal company for biological treatment or incineration. Review all Local, State, and Federal regulations concerning health and pollution to determine approved disposal procedures. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 7. HANDLING AND STORAGE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Keep out of reach of children. DANGER - Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing, and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

USER SAFETY RECOMMENDATIONS

Users Must: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with iron-based micro-nutrients, dye indicators or other anionic materials.

STORAGE

Do not contaminate water, food or feed. Keep container tightly closed. Store in a cool, dry area inaccessible to children.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Respiratory Protection: None required. For prolonged exposure or if used in enclosed or confined areas, a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter may be used.

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Protective Gloves: Wear rubber or neoprene gloves. (Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.)

Eye Protection: Wear protective eyewear (goggles or face shield).

Other Protective Equipment: Wear coveralls over long-sleeved shirt and long pants, chemical resistant footwear and socks. Wear chemical-resistant headgear when using product in overhead watering systems and a chemical resistant apron when mixing, loading or cleaning equipment.

VENTILATION

Local Exhaust: Use ventilation adequate to keep hazardous ingredients below their TLV.

Mechanical: None required.

Special: None required.

Other: Ventilate area after treatment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light amber liquid

Solubility in Water: Complete

Viscosity: NE

Boiling Point: 212°F

pH: NE

Odor: Benzaldehyde odor

Vapor Pressure: NE

Vapor Density: NE

Freezing/Melting Point: NE

Density: NE

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY

Stability: Stable

Conditions to Avoid: None known

Incompatibility (Material to Avoid): Anionic materials, oxidizers

Hazardous Polymerization: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS

Nitrous oxides and ammoniacal vapors

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY

Primary: Ingestion

Secondary: Inhalation

Tertiary: Skin

ACUTE

Eyes: Causes burning, irritation and redness.

Skin: Causes burning, irritation and redness.

Ingestion: Causes irritation, difficulty in breathing and circulatory shock - concentrate may be fatal. Acute oral LD₅₀ = 1,000 mg/kg (rats).

Inhalation: Mist caused by manufacturing operations irritates nasal passages. Alcohol portion, which can be inhaled or absorbed, must be controlled below TLV. Prolonged inhalation of vapors causes nausea, loss of motor skills and disorientation.

CHRONIC / CARCINOGENICITY

Neither this product nor any of its ingredients are classified as carcinogens by the National Toxicity Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

SECTION 12. ECOLOGICAL INFORMATION

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except for algae control in decorative ponds, fountains or water displays. Do not contaminate water when disposing of equipment washwaters.

SECTION 13. DISPOSAL CONSIDERATION

Do not contaminate water, food or feed by disposal of container or wastes. Dispose of container and wastes in accordance with all Federal, state and local regulations.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

Questions concerning the safe handling of the product should be referred to the Whitmire Micro-Gen Customer Service Department at 800-777-8570.

Container Disposal: Empty container by using the product according to the label directions.

Do not reuse this container! Place empty container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency or call 1-800-CLEANUP for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

Waste Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. NEVER PLACE WASTES DOWN ANY INDOOR OR OUTDOOR DRAIN OR SEWER.

SECTION 14. TRANSPORT INFORMATION

4 x 1 GALLON: SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

Proper Shipping Description: Disinfectant (not regulated)

Package Marking: "Consumer Commodity, ORM-D"

Package Labeling: No label required.

Certified Packaging: Not required.

4 x 1 GALLON: SHIPMENT BY OCEAN OR AIR (IMDG & IATA CLASSIFICATION)

Proper Shipping Description: Corrosive Liquid, Basic, Organic, n.o.s. (Quaternary ammonium compounds), 8, UN 3267, III

Package Marking: "Corrosive Liquid, Basic, Organic, n.o.s. (Quaternary ammonium compounds), UN 3267"

Package Labeling: Label as "Corrosive" (class 8).

Certified Packaging: Required.

IATA Packing Instructions: 820 CARGO AIRCRAFT ONLY

30 GALLON: SHIPMENT BY GROUND OR OCEAN (DOT & IMDG CLASSIFICATION)

Proper Shipping Description: Corrosive Liquid, Basic, Organic, n.o.s. (Quaternary ammonium compounds), 8, UN 3267, III

Package Marking: "Corrosive Liquid, Basic, Organic, n.o.s. (Quaternary ammonium compounds), UN 3267"

Package Labeling: Label as "Corrosive" (class 8).

Certified Packaging: Required.

NOTE: 30 GALLON DRUM CANNOT BE SHIPPED BY AIRCRAFT!

SECTION 15. REGULATORY INFORMATION

CERCLA

This product contains no CERCLA listed chemicals.

SARA TITLE III SECTION 311/312 HAZARD CLASS

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard

SARA TITLE III SECTION 313 CHEMICALS

This product contains no substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) or 40 CFR Part 372.

TSCA

All components of this product are listed or excluded from listing on the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

SECTION 16. OTHER INFORMATION

NFPA HEALTH RATING INFORMATION

HEALTH - 2

FLAMMABILITY - 1

REACTIVITY - 1

HMIS HAZARD RATING INFORMATION

HEALTH - 2

FLAMMABILITY - 1

REACTIVITY - 1

KEY: 4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

NA - Not Applicable
NE - Not Established
PEL - Permissible Exposure Limit
TLV - Threshold Limit Value
STEL - Short Term Exposure Limit (15 min.)
TWA - Time Weighted Average (8 hrs)



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

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