

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): 09-2008 (6 x 1 qt)
 09-2002 (4 x 1 gal)
 09-2003 (1 x 30 gal)
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% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	10	68391-01-5
n-Alkyl (68% C12, 32% C14) 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% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	NE	NE	NE	NE
n-Alkyl (68% C12, 32% C14) 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.

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

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.

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

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.

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 or P prefilter. See 29 CFR 1910.134 for respiratory protection, training and testing requirements.

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 or P prefilter may be used. See 29 CFR 1910.134 for respiratory protection, training, and testing requirements.

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.

MATERIAL SAFETY DATA SHEET

Prescription Treatment® brand Green-Shield® Disinfectant & Algicide

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: Clear 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.

Container Disposal (1 Gallon): Empty container by using the product in accordance with the label directions. Do not reuse container! Place empty container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

Container Disposal (Greater than 1 Gallon): Empty container by using the product in accordance with the label directions. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed state and local authorities, by burning. If burned stay out of smoke.

Waste Disposal: Pesticide wastes are actually hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

SECTION 14. TRANSPORT INFORMATION

6 x 1 QT & 4 x 1 GAL: SHIPMENT BY GROUND WITHIN U.S. (DOT CLASSIFICATION)

Proper Shipping Description: Disinfectant
Package Marking: Consumer Commodity, ORM-D
Package Labeling: No label required
Certified Packaging: Not required

6 x 1 QT & 4 x 1 GAL: 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 GAL: 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 GAL DRUM CANNOT BE SHIPPED BY AIRCRAFT!

Product in unopened original packaging is compliant with all regulations for ground shipment within the U.S. WMG disclaims any liability for claims or damages that may result from shipment by other means. Consult appropriately trained shipping professional before offering for shipment by water or air.

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 in concentrations above the de minimis concentration level.

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

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. **For automatic MSDS updates, register at www.wmmg.com.**

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

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 hr)



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.

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