

Xtreme

Technical Data Sheet

Xtreme-Treatment Compound—Antimicrobial Multi-Surface Cleaner

In efforts to protect yourself and those around you, Heartland Energy Group, Ltd is offering their safe, non-toxic, EPA FIFRA Exempt, antimicrobial multi-surface cleaner. Xtreme Treatment Compound is an antimicrobial multi-surface cleaning solution for fighting and killing germs, bacteria, and viruses that can be spread throughout the air or on surfaces. Xtreme Treatment Compound can be used in many different applications. From your home to your business, even inside your car. The material will not harm or discolor upholstery or dashboards like commonly sold disinfectants. In fact, Xtreme Treatment Compound can be used as a laundry additive to control odors for nasty sporting related loads. Xtreme's ingredients are considered GRAS by the FDA. "GRAS" is an acronym for the phrase Generally Recognized AS Safe under sections 201(s) and 409 of the US Federal Food, Drug, and Cosmetic Act. More importantly, Xtreme is so safe its' ingredients are US EPA Exempt from registration under the minimal risk pesticide FIFRA section 25(b). Products powered by Xtreme have been tested on various viruses and bacteria. Xtreme has undergone extensive testing over the past 14 years. To review the Xtreme test results please visit our website @ <https://xtremetestresults.com>.

FEATURES AND BENEFITS:

- This product is exempt from EPA registration under the minimal risks pesticides exemption FIFRA section 25(b)
- Xtreme Treatment Compound is formulated with all natural ingredients
- Xtreme Treatment Compound's ingredients are considered GRAS by the US FDA
- Effectively replaces glutaraldehyde's, formaldehydes and quats
- Has been shown to inactivate viruses and bacteria in a laboratory environment
- Immediately active in the treatment of recycled water, frac tanks, impoundments and lagoons
- Significantly reduces BOD, COD, and TSS levels
- Complete degradation resulting in the elimination of odors
- Effectively kills odor causing bacteria on food contact surfaces
- Effectively kills odor causing bacteria on non-food contact surfaces
- Kills bacteria that cause spoilage, deterioration, or fouling materials on a variety of surfaces, textiles and paper products
- Kills odor causing bacteria
- Effectively controls the growth of algae
- Neutralizes and removes odors
- Removes mold stains from surfaces such as patios, decks and most other structures
- Kills and controls micro-organisms infectious only to animals

TYPICAL PHYSICAL PROPERTIES:

<u>Appearance and Color</u>	<u>Clear to colorless liquid</u>
<u>Initial Freeze Point</u>	<u>32°F (0°C)</u>
<u>Odor</u>	<u>Mild detergent odor</u>
<u>Solubility in Water</u>	<u>100%</u>
<u>Melting Point</u>	<u>N/A</u>
<u>Flashpoint</u>	<u>N/A</u>
<u>Specific Gravity</u>	<u>.98 ± .04</u>

DIRECTIONS FOR USE:

Consult a Heartland Energy Group, Ltd. representative for application recommendations.

Xtreme Treatment Compound is a highly concentrated material. The standard suggested dilution rate is 2 ounces per gallon of water. Xtreme can be sprayed, fogged or wiped on contaminated surfaces.

STORAGE AND HANDLING:

Rinse empty container with water and discard as per federal, state and local guidelines.

PACKAGING:

Xtreme-Treatment Compound is packaged in 5 gallon to 275 gallon containers. Bulk quantities are available upon request.

Recommendations given in this data sheet are based on tests believed to be reliable. However, the use of the information is beyond the control of Heartland Energy Group, Ltd. and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.

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BIODEGRADABLE: Yes/100% FORM: Liquid
ODOR: Mild Soapy Odor
COLD STABILITY : 30°F
DETERGENCY : Excellent PHOSPHATES: None
WETTING ABILITY: Excellent

FIFRA Exempt

This product is exempt from EPA registration under minimal risks pesticides exemption FIFRA section 25(b)
Xtreme Treatment Compound kills odor-causing bacteria on food contact surfaces and on non-food-contact surfaces.
Xtreme Treatment Compound kills bacteria that cause spoilage, deterioration, or fouling of materials on a variety of surfaces, textiles and paper products. Xtreme Treatment Compound kills bacteria that cause fouling in cooling towers.
Xtreme Treatment Compound kills odor-causing bacteria.
Xtreme Treatment Compound effectively controls the growth of algae.
Xtreme Treatment Compound neutralizes and removes odors.
Xtreme Treatment Compound removes mold stains from surfaces such as patios, decks and most other structures.
Xtreme Treatment Compound kills and controls micro-organisms infectious to animals.

Xtreme Treatment Compound is Exempt from FIFRA Registration.
Xtreme Treatment Compound is registered for sale in the State of Florida with the Florida Department of Agriculture and Consumer Services Bureau of Pesticides, Pesticide Registration Section.
The Florida Company ID for Heartland Energy Group is H0274001.
The Florida Department of Agriculture ID for Xtreme Treatment Compound is 0080274001.

DOT STATEMENT

Non-D.O.T. Regulated/Non-D.O.T. Hazardous
EXEMPT as per 49 CFR 173.154(d) (1) <6.25 mmpy

D. O. T. classifies a material to be corrosive and hazardous if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel or 7075-Y6 Aluminum.

Dilution Specification

Please refer to the product label.

Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr. LC 50 and LD 50 (rat oral: NON-TOXIC)

Mutagenicity Limits: OECD Guidelines Sec. 471
Chemicals: NON-MUTAGENIC

Dermal Irritation & Corrosion

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

Xtreme Treatment Compound is classified as a "Non-Skin Irritant".

Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods .

Xtreme Treatment Compound is 100% Biodegradable.

Classifications & Approvals

Exempt from EPA registration under minimal risks pesticides exemption FIFRA section 25(b)

D.O.T., IMO, IATA, IMDG - Non-Regulated

TDG - Non-Regulated to and through Canada

SARA 313 311/312 - This product does not contain any ingredients that are subject to the reporting requirements.

California Prop 65 - This product does not contain any ingredients known to the state of California to cause cancer, birth defects or any other reproductive harm.

FDA - Approved as Safe (GRAS)

USDA Authorization
A1, A2, A3, A4, A8, C3

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