

Xtreme™ MM+

Poultry Manure Management Plus

**Technical
Data
Sheet**

**A Natural, Safe & Effective Treatment for
Controlling Ammonia Odor & Problematic Pests**

Controls Population of

Darkling Beetles

They may eat fly larvae and maggots, but they'll also burrow into your wood barn - like termites!

Kill them **both**
in 1 product, with
Xtreme MM+

Controls Population of

Flies & Larvae

Flies love laying their eggs in fresh manure, creating maggots (fly larvae).

Unfortunately, Flies also carry disease and are detrimental to the health of your chickens!

Effectively Reduces
Ammonia Levels

Formulated with
**All-Natural
Ingredients***

Neutralizes
**Viruses &
Bacteria**

*FDA recognized as
GRAS (Generally
Recognized as Safe)
Ingredients



HEARTLAND
ENERGY GROUP LTD.

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Xtreme™ MM+ (Manure Management Plus) contains a balanced blend of organic acids, essential oils, and saponins making it a great natural alternative for the control of problematic ammonia odor, darkling beetles, flies and fly larvae. Xtreme™ MM+ is made with FDA recognized GRAS (Generally Recognized as Safe) ingredients. Xtreme™ MM+ is non-toxic and contains no alcohols, iodine, chlorine bleach, ammonia, hydrogen peroxide, methanol, quaternary amines or glutaraldehyde. Xtreme™ MM+ is non-carcinogenic, non-pathogenic and does not contain any substances considered dangerous to use. Xtreme™ MM+ is a natural choice for large poultry operations. Our Xtreme™ technology is backed by years of studies from the top veterinary universities and research labs.

FEATURES AND BENEFITS:

- Xtreme™ MM+ is formulated with all natural ingredients and considered GRAS
- Effective in the reduction of ammonia levels
- Controls and reduces the presence of fly larvae in manure piles
- Controls the presence of Darkling beetle populations
- Industry research has demonstrated potential anticoccidial effects in products like Xtreme MM+ that contain additives like organic acid, essential oils and quillaja saponins
- Complete degradation resulting in the elimination of odors
- Kills bacteria that cause spoilage, deterioration, or fouling materials on a variety of surfaces
- Kills odor causing bacteria
- Effectively controls the growth of algae
- Neutralizes and removes odors
- Kills and controls micro-organisms infectious to animals
- Neutralizes viruses and bacteria
- This product is exempt from EPA registration under the minimal risks pesticides exemption FIFRA section 25(b)
- University and independent lab studies demonstrate that Xtreme™ technology inactivates specific viruses like: PEDv, PRRSv, PCV-2, SE, AI, and ASFv
- Proudly made in the USA!

TYPICAL PHYSICAL PROPERTIES:

Appearance & Color _____ Clear yellowish liquid
Initial Freeze Point _____ 32°F (0°C)
Odor _____ Slightly fragrant odor
Solubility in Water _____ 100%
Melting Point _____ N/A
Flashpoint _____ N/A
Specific Gravity _____ 1.00±.04

DIRECTIONS FOR USE:

1st Application (Day 1)

Mix 12 ounces per gallon of MM+ with water into a portable sprayer system. Spray product liberally in order to effectively saturate the manure piles. Product can also be applied liberally to wood walls, beams, ceiling and floor joists or any subsequent areas where darkling beetles are present. The initial treatment may require between 55 to 110 gallons of MM+

2nd Application (Day 30)

Mix 10 ounces per gallon of MM+ with water into a portable sprayer system. Spray product liberally in order to effectively saturate the manure piles. Product can also be applied liberally to wood walls, beams, ceiling and floor joists or any subsequent areas where darkling beetles are present.

Subsequent Monthly Applications (Day 60, 90, 120...)

Mix 8 ounces per gallon of MM+ with water into a portable sprayer system. Spray product liberally in order to effectively saturate the manure piles. Product can also be applied liberally to wood walls, beams, ceiling and floor joists or any subsequent areas where darkling beetles are present.

STORAGE & HANDLING:

Rinse empty container with water and discard as per federal, state and local guidelines. Suggested shelf life of Xtreme MM+ is 2 years. Xtreme MM+ test strips can be requested from your supplier to verify product activity.

PACKAGING:

Xtreme MM+ is packaged in 5 gallon to 275 gallon containers.

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.

