

NET VOLUME: 20 Liters

Micro-Aid® Liquid

“AN AID IN THE CONTROL OF MANURE AND/OR AMMONIA ODORS”

Micro-Aid® is a powerful tool to help control odor, ammonia and sludge accumulation in animal waste management systems

General Information:

- Micro-Aid® is non-toxic to warm blooded animals
- Micro-Aid® dilutes readily with water for easy application; use diluted material within 48 hours
- Keep out of reach of children

Ingredients:

- *Yucca schidigera* extract, copper sulfate.



Directions for Use:

- For manure storage treatment, apply an initial rate of twenty (20) liters per one (1) million liters of wastewater; Then, apply a weekly rate of four (4) liters per one (1) million liters of wastewater
- For severe sludge accumulation, apply at the rate of one (1) liter per twenty-five (25) cubic meters of sludge per week
- For odor and ammonia control, apply two and one-half (2.5) liters per one-thousand (1,000) square meters of surface area per week
- Dilute Micro-Aid® Liquid with water and disperse over total area; Suggested dilution rate is one (1) part Micro-Aid® Liquid to five (5) parts water.



Manufactured by:

Distributors Processing, Inc.

17656 Ave. 168, Porterville, CA 93257 U.S.A.

www.dpiglobal.com



Manufactured for:

Farmers Farmacy

39 Elgin St. South, Cambridge, ON N1R 5G3

1-866-527-6229

Batch No:

ML-122-20

VOLUME NET: 20 Litres

Micro-Aid® Liquide

“AIDE POUR LE CONTRÔLE DES ODEURS DE FUMIER ET / OU D'AMMONIAQUE”

Micro-Aid® est un outil puissant pour aider à contrôler les odeurs, l'ammoniaque et les accumulations de boues dans les systèmes de gestion de déchets d'origine animale

Information générale:

- Micro-Aid® est non-toxique pour les animaux à sang chaud.
- Micro-Aid® se dilue facilement dans l'eau pour une application facile; utiliser le produit dilué dans les 48 heures.
- Garder hors de la portée des enfants.

Ingédients:

- Extrait de *Yucca Schidigera*, sulfate de cuivre.



Mode d'emploi:

- Pour l'entreposage du fumier, appliquer un taux initial de vingt (20) litres par un (1) million de litres d'eau usée; Ensuite, appliquer un taux hebdomadaire de quatre (4) litres par un (1) million de litres d'eau usée.
- Pour des accumulations sévères, appliquer au taux d'un (1) litre par vingt-cinq (25) mètres cubes de boue par semaine.
- Pour le contrôle des odeurs et de l'ammoniaque, appliquer deux litres et demi (2,5 litres) par mille (1000) mètres carrés de surface par semaine.
- Diluer Micro-Aid® Liquide avec de l'eau et disperser sur la surface totale; Le taux de dilution suggéré est d'une (1) partie de Micro-Aid® Liquide pour cinq (5) parties d'eau.



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1. Simpler Procedure to fill tank
 - a. Best option is to calculate the tanks capacity and treat it for full capacity at 1 time
 - i. Manure Storage Treatment apply an Initial rate of 20 liters per 1,000,00 liters of wastewater
 1. Example 2,000,000 liter capacity use 2 x 20 liter jugs of **Micro-Aid® Liquid**
 - ii. Proper observation and management are needed because outside influences may change **Micro-Aid® Liquid** Requirements.
 1. A weekly rate of 4 liters per 1 million liters of wastewater maybe required
 - b. Advantages
 - i. Initially more **Micro-Aid® Liquid** is available to break down sludge and solid build up and **Micro-Aid® Liquid** will be active for the full time period the tank is being filled..
 - ii. Don't have to think about adding more **Micro-Aid® Liquid** unless the client is adding
 1. Afterbirth or dead fetuses
 2. Feed being added to the manure storage by direct addition when sow feeder are cleaned out of poor feeder design in starter and finishing barns.
 3. Excessive straw or fibrous free stall bedding material will take longer to break down and additional Micro Aid Liquid treatment will be required.
 4. Sand bedding (inorganic material) in dairy barns will require more agitation or liquifying to help suspend these heavy particle that are on the bottom of the manure storage
 - iii. Better distribution of **Micro-Aid® Liquid** throughout the tank
 - iv. Can add **Micro-Aid® Liquid** to the sludge spots for faster breakdown and liquifying of manure solids
 - v. Improved fly control through the management of reducing available breeding environment.
 - vi. Less volatile gasses produced, less foaming and health hazards for both animals and workers.
2. Storage of Product
 - a. Room Temperature (human comfort) not to exceed 100 degrees F
 - b. Product can store for 2 years.
 - c. If stored for long period gently shake the 20 L pail to make sure no sediment has occurred. Do not do this aggressively or foaming can occur due to the surfactant properties.
 - d. **Micro-Aid® Liquid** will not freeze.
3. Pit Foaming
 - a. If this occurs make a diluted ratio is 1 part **Micro-Aid® Liquid** to 5 parts water and spray the foam. This will reduce surface tension of the foaming bubbles.
 - i. May take up to 7 - 14 days to get ahead of the problem. Always better to have the storage system charged fully with **Micro-Aid® Liquid** to reduce gas production.
 - ii. **Note : any remaining diluted product should be used up in 5 days**
 1. Depending on water quality (organic contamination, bacteria, and mineral content) the poorer the water quality the sooner diluted product should be used
4. Odour
 - a. Unique odour in undiluted form, but not offensive to animals or people
5. Copper Sulfate as an Ingredient
 - a. Copper Sulfate is added to **Micro-Aid® Liquid** as a preservative.
 - b. Once applied at 20 L per 1 million liters very little copper added to the manure. Most of the copper in the manure will come from the diets being fed.
6. Disinfectants and detergents used in sanitation program
 - a. This will add to the load of numerous factors that hinder performance of waste storage facilities,
 - i. If too much sanitation products are being added and are not biodegradable then add 4 liters of **Micro-Aid® Liquid** / 1 million liters of washing water will assist in offsetting this load of antimicrobial properties.
 - ii. Evaluate amount of liters of waste water used after each sanitation procedure and add at 4 liters of **Micro-Aid® Liquid** / 1 million liters of washing water.
7. Hydrogen Sulfide Monitoring
 - a. Contact Farmers Farmacy for more Information