



## ESDW – DAIRY WASTE TREATMENT

**ESDW** dairy odour control is a natural product formulation for use in treating dairy waste. When used as directed, **ESDW** will maintain biomass, reduce odour and liquefy sludge in lagoons, holding ponds, dairy waste tanks etc.

### **BENEFITS OF ESDW:**

- Improve effluent quality
- Reduce grease build-up
- Increase overall efficiency
- Control filaments
- Reduce odour emissions and foam
- Lower BOD, COD, and TSS
- Accelerate the start-up of new systems and aids recovery after upsets
- Improve cold weather operation
- Mitigate effects of dairy related loadings and toxic shocks
- Reduce sludge production
- Lower operating costs by reducing chemical consumption

### **TYPICAL APPLICATION RATES:**

Flow Rate	Initial Dosage	Maintenance**
Up to 1,000 gpd	½ lb. / day for 3 days	½ lb. / week
Up to 5,000 gpd	½ lb. / day for 3 days	1lb. / week
Up to 20,000 gpd	5 lbs.*	1½ lb. / week
Up to 50,000 gpd	8 lbs.*	2 lb. / week
Up to 250,000 gpd	5 lbs.*	¼ lb. / day
Up to 500,000 gpd	25 lbs.*	½ lb. / day
Up to 1 mgd	50 lbs.*	1 lb. / day
Up to 5 mgd	50 lbs. per mgd*	1 lb. / mgd / day
Up to 12 mgd	50 lbs. per mgd*	¾ lb. / mgd / day
Up to 100 mgd	30 lbs. per mgd*	½ lb. / mgd / day

\* Spread this initial dosage out over the course of 10 days

**Notes:**

1. Add as regularly as possible. If it is required to miss one day, add that day's product with the next dosage
2. Dosage rate will vary with flow rates, retention times and system variations. The rates above are for a typical, well maintained system
3. For extended aeration, contact stabilization, step aeration, oxygen activated sludge, etc., application rates are based on the average daily flow rate to the aeration basin, excluding the return sludge stream
4. When using Trickling Filter or Rotating Biological Contactors, application rates are based on the average daily flow rate to the filter or contactor, excluding any re-circulating process stream

**TYPICAL APPLICATION RATES FOR LAGOON SYSTEMS:**

- For facultative lagoon systems, application rates are based on lagoon surface area

Days 1 through 5	20 lbs. / acre / day
Day 6+	2 lbs. / acre / week

- For anaerobic and aerated lagoons, application rates are based on lagoon volume or the average inflow to the lagoon

<100,000 gal.	1 lb. - 2x / week / 5,000 gal.
>100,000 gal.	½ lb. - 1x / day / 5,000 gal.

\*\* For lagoons in cold climates, commence program when the water temperature is a least 50F

**SPECIFICATIONS:**

**Form:** Free-flowing granular powder

**Color:** Brown

**Nutrient Content:** Biological nutrients & stimulants

**Plate Count:**  $5 \times 10^9$

**pH:** 6.5 – 7.5 (re-hydrated state)

**Bulk Density:** 0.6 - 0.8 gr/cc

**Water Solubility:** Moderate - disperses in water

**Flash Point:** N/A

**Sensitive to static discharge:** Not sensitive

**Stability:** Max loss 1 log/yr

**SAFETY:**

The materials used in the production process are derived from naturally occurring and sustainable sources. **ESDW** is non-caustic, non-corrosive, non-flammable and environmentally safe. **ESDW** is not harmful to animals, plants and humans.

**COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

**STORAGE & HANDLING:**

Do **NOT** freeze. Store in a cool location away from direct sunlight - No special handling required

**PACKAGING:**

10 kg. (22 lb.) HDPE Pail - 250 gr. (8.8oz.) water soluble pouches  
10 kg. (22 lb.) HDPE Pail - Bulk  
110 lb. Fiber Drum - Bulk