



Materials Safety Data Sheets (MSDS) are provided with each delivery.

Read and understand MSDS prior to using MicroCg™.

If there are any questions, please call Environmental Operating Solutions, Inc. at (508) 743-8440.

### Handling and Storage Guidelines

- Keep MicroCg™ containers (pails, drums and totes) **out of direct sunlight** whenever possible and **avoid extreme temperatures** (below 20° F and above 125° F)
- Keep MicroCg™ containers **tightly sealed** until they are ready for use. Do not loosen bungs or remove covers and caps on MicroCg™ containers prior to use.
- If MicroCg™ containers are stored outside, cover with tarp or shelter sufficient to **prevent over exposure to ultraviolet light**.

### Putting MicroCg™ Online

- Most chemical metering pumps typically used to pump methanol or other electron donors (carbon sources) in wastewater treatment plants are compatible with MicroCg™. These include metering pumps, peristaltic pumps and general use pumps.
- Appropriate measures should be taken to avoid cross-contamination of MicroCg™. Such measures are described below:
  1. **Mixing** – Like most chemicals, MicroCg™ should not be mixed with other chemicals including electron donors such as methanol, acetic acid, sodium acetate, sucrose solutions, ethanol or other chemicals
  2. **Transfer** – If MicroCg™ is transferred into a day tank or other storage tank, the transfer pump, hoses and the tank itself must be cleaned thoroughly to prevent cross-contamination with other chemicals. Day tanks and storage tanks must be covered to minimize evaporative losses
  3. **Dilution** – EOSi does not recommend that MicroCg™ be diluted with water as the physical and/or performance characteristics of the product *could* be compromised. Note: In some cases, small amounts of MicroCg™ are required and accurate dosing cannot be achieved unless the product is diluted due to metering pump constraints. Always consult an EOSi technician prior to diluting MicroCg™ for recommendations.

### Metering MicroCg™ Drums

- Unscrew one of the two bung plugs using a bung wrench and insert chemical suction line into drum, making sure that the end of the suction line is near the bottom of the drum
- It is not recommended that drums be stored or used horizontally or on drum racks

# Operator Guidelines

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## Metering MicroCg™ Totes

MicroCg™ can be drawn either from the spigot on the bottom of the tote (“bottom feed”) or from the top of the tote (“top feed”):

### Bottom Feed

- Traditional totes or Intermediate Bulk Containers (IBCs) generally have either one of two threads on the spigot: a 2” NPT or Metric. It is necessary to have adapters and fittings available to handle both thread types. Contact an EOSi technician for more information on locating and purchasing these adapters.
- To prevent leaking, avoid cross-threading fittings and use Teflon tape
- Open/loosen the 6” cap or 2” bung on the top of the tote to prevent a vacuum from developing within the tote. This may cause damage to the metering pumps or the tote itself

### Top Feed

- Open the 6” cap or 2” bung on the top of the tote and insert chemical suction line

## Empty MicroCg™ Containers

- Do not use MicroCg™ containers for storage of any other chemicals, wastewater or any liquid or solid material as such containers cannot be retrieved and a deposit fee will be assessed. This is to ensure the quality of our product and the safety of delivery personnel.
- A deposit fee will be assessed for any delivered drums and totes that cannot be returned within a reasonable amount of time.

## Clean Up

- MicroCg™ is easily cleaned with warm or hot water and dish detergent.