



## Terra Systems Core Competencies

### U.S. Manufacturing Staff

Terra Systems owns and operates its manufacturing plant in Claymont, Delaware and has a full-time production staff to help meet the sometimes demanding production and delivery requirements of our clients and to maintain tight quality control over our products.

- The date of manufacture
- The date of shipment
- The pH
- The batch #'s for the ingredients
- The mean droplet size



The raw data in Excel is available upon request.

#### I. Product Information


Parameter	Value
Customer or Site	Young-Rainey STAR Center, Largo, Florida
Product manufactured	60% SRS®-SD
Date manufactured	November 4th, 2019
Lot#	A2701
Customer packaging	275 Gallon IBC Totes
Date shipped	November 8th, 2019


#### II. Ingredients Information

Ingredient	Lot#	Manufacturing Engineer
Soy Bean Oil	11182014	Erich Hauptmann
60% Sodium Lactate	M-1406-018	Erich Hauptmann
Emulsifiers	G270059 885648	Erich Hauptmann
Nutrients	CYE06060960	Erich Hauptmann
Vitamin B12	11765655	Erich Hauptmann
Water	-	Erich Hauptmann

#### III. Physical Parameters

Parameter	Value
Mean Droplet Size (µm)	0.61
pH	7.2

  
 Manufacturing Engineer  
 11/7/2019

  
 Production Supervisor  
 11/8/2019

Maintaining a full-time manufacturing team is a key differentiator between Terra Systems and other U.S. suppliers and provides the following customer benefits:

1. The product is fresh and is not stored for long periods of time, reducing potential pH issues.
2. We can meet demanding delivery requirements by adding a 2<sup>nd</sup> shift or producing product on the weekend.
3. The production engineer and the production supervisor are responsible for maintaining accurate logs for each batch produced and both are required to sign off on the QA/QC Sheet for every batch.
4. Each production engineer is trained on the importance of manufacturing each product using the correct SOP and the correct piece of equipment.
5. The production supervisor is responsible for providing quarterly review and update training to each manufacturing employee.
6. Production staff has extensive experience with custom formulations.

All Production Staff are Fork-lift Trained for Loading Totes or Drums onto a Flatbed or Box Trailer



An example of the Manufacturing Quality Control Checklist Signed by the Production Engineer and checked by the Production Supervisor is attached and includes:

To discuss a remediation site call or email Michael Free at [mfree@terrasystems.net](mailto:mfree@terrasystems.net) or 484-889-2214.