

Terra Systems Core Competencies U.S. Manufacturing Staff

Terra Systems owns and operates a manufacturing plant in Claymont, Delaware and has invested in 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.

Example of the Manufacturing Quality Control Checklist Signed by the Production Engineer and checked by the Production Supervisor



Manufacturing Quality Control Checklist

I. Product Information

Parameter	Value
Product manufactured	60% SRS [®] -SD
Date manufactured	April 23rd, 2014
Lot#	D23N2
Customer packaging	275 Gallon IBC Totes


II. Ingredients Information

Ingredient	Lot#	Volume/Weight	Manufacturing Engineer	Date	Manufacturing Supervisor	Date
Oil	792731	550 gallons	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14
Sodium Lactate	M1401004	37 gallons	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14
Emulsifiers	G256538	65 gallons	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14
Nutrients	Mixed Lot#s	24 pounds	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14
Vitamin B ₁₂	83124664AO	86 grams	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14
Water	NA	270 gallons	Erich Hauptmann	4/23/14	Richard Raymond	4/23/14

III. Physical Parameters

Parameter	Value
Mean Droplet Size	0.54
pH	7.2


Production Engineer
4/23/14
Date


Production Supervisor
4/23/14
Date

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. We can meet demanding delivery requirements by adding a 2nd shift or producing product on the weekend. .
2. 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.
3. Each production engineer is trained on the importance of manufacturing each product using the correct SOP and the correct piece of equipment.
4. The production supervisor is responsible for providing quarterly review and update training to each manufacturing employee.
5. Production staff has extensive experience with custom formulations.

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



To discuss a challenging site call or email Michael Free at mfree@terrasystems.net or 484-889-2214.