



Liquid Flowable Plant

- Herbicide flowable formulation and milling
- Production capacity of 10,000 to 30,000 gallons per 24 hours
- Two 5,000-gallon stainless steel formulation vessels with Cowles dissolvers
- Four 60-gallon Vertical Sand Mills and one 80-gallon Horizontal Mill
- One 60-ton glycol chiller

Insecticide Emulsifiable Concentrate Plant

- Liquid formulation and filling of insecticide ECs
- Batch size 3,500 gallons; production capacity of up to 15,000 gallons per 24 hours
- Stainless steel formulation vessels on load cells
- Ability to handle both solid and liquid ingredients
- Packaging line(s) capable of filling one-gallon, 2.5-gallon, 30-gallon, 120-gallon and mini-bulk containers

Glyphosate Amination/Formulation Plant

- Capable of aminating isopropylamine, dimethylamine, and ammonium hydroxide salt(s) of glyphosate
- Formulations include 62% concentrate, 4 lb./gallon and 5 lb./gallon products, along with combination products with in-plant reacted fomesafen
- Three 6,300-gallon stainless steel reactors
- 66,000-gallon bulk surfactant storage
- High pressure storage for isopropylamine and dimethylamine
- 700,000-gallon stainless steel bulk finished product storage

Herbicide Emulsifiable Concentrate Plant

- Liquid formulation and filling of herbicide ECs
- Batch size 6,000 gallons; production capacity up to 18,000 gallons per 24 hours
- Stainless steel formulation vessels on load cells
- Ability to handle both solid and liquid ingredients
- Packaging line(s) capable of filling one-gallon, 2.5-gallon, 30-gallon, 120-gallon and mini-bulk containers



Adjuvant Emulsifiable Concentrate Plant

- Liquid formulation and filling of adjuvant emulsifiable concentrates
- Batch size 5,000 gallons; production capacity of up to 25,000 gallons per 24 hours
- Formulation vessels on load cells and stainless steel
- Packaging line(s) capable of filling one-gallon, 2.5-gallon, 30-gallon, and mini-bulk containers

Liquid Filling Plant

- Four fully automated 2.5-gallon bottle filling lines (one for flowables and three for EC's)
- One fully automated 1-Liter to 2.5-gallon bottle for EC
- Production capacity of 10,000 to 20,000 gallons per filling line per eight-hour shift
- Automatic capping, heat induction sealing and labeling
- Video-Jet lot numbering of bottles and cartons
- Automatic case packing, hot melt glue sealing, palletizing and stretch wrapping
- Semi-automated drum/mini-bulk filling line
- Fully automated glyphosate drum/mini-bulk filling line

Impregnated Granular Plant

- Impregnated insecticide/fungicide granules (clay, cob and sand based)
- Production capacity of up to 450,000 pounds per 24 hours
- Fully enclosed mixing and formulating area
- Dust-removal system so effective, workers need no respirators
- Four silos with direct hopper car access, able to hold 1,000,000+ lbs. of carrier
- Weigh cell controlled addition system
- Granules pre-screened for fines and post-screened for overs removal

Technical Synthesis Plant

- Herbicide technical synthesis
- High pressure batch reaction capabilities
- Four Heinkel centrifuges for solid/liquid separation
- Wyssmont TURBO-DRYER® with associated hammer-milling/bulk bagging capabilities
- Production capacity up to 12M lb. per year

Bulk Liquid Storage and Terminaling

- Bulk tanks for lease
- Twenty-one 20,000-gallon glass-lined tanks (under roof)
- All tanks with electronic level indication
- Five bulk truck load-out stations (one covered, all diked)
- Rail, tank truck & ISO container capabilities

Pilot Unit #1 – Liquid Formulations

- Pressure Rated Pfaudler Glass Lined Reactor
- 20-gallon working volume
- Jacketed for heating or cooling
- Additions are done by weighing raw ingredients on a bench scale
- 1 horsepower retreat curve blade mixer

Pilot Unit #2 – Liquid Formulations and Wet Milling

- Stainless Steel Reactor (atmospheric)
- 20-gallon working volume
- Jacketed for heating and cooling
- Can be setup for ventilation (no scrubbing)
- Additions are done by weighing raw ingredients on a bench scale
- 1 horsepower, 45-degree impeller
- 1 liter Vertical Media Mill with cooling capabilities

For more information or to request a quote contact us toll-free at our St. Joseph, MO headquarters.
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