

Materials

How to Create Crop Protection Products

1. Navigate to the Crop Protection Tab
2. Click “+ Add Product”
3. Click “Product Search”
4. Enter name and/or manufacturer of the product to search
5. Select your desired product
6. Greyed out Details will automatically populate based on the selected product
7. Enter information for Purchased Units and Applied Units
 - a. Purchased units are used to calculate report totals
 - b. Applied Units are used for the application rate
8. Fill in other desired fields
 - a. If utilizing the material with a connected PTx Trimble display it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
9. Click “Save”

Note: If you cannot find your required chemical in step 4, you can type the information into the fields manually.

The screenshot shows the PTx Materials interface. At the top, there is a navigation bar with the PTx logo, the year 2023, a 'Select Crop Zone' dropdown, and notification, help, and user icons. A left sidebar contains a 'Setup' menu with options: Map, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for 'CROP PROTECTION', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', and 'TANK MIXES'. The 'CROP PROTECTION' tab is active, showing 'Product Properties'. Below this, a 'PRODUCT SEARCH' button is present. The form is divided into 'Details' and 'Controller' sections. The 'Details' section includes fields for Name *, Category *, Form *, Active Ingredient, Purchased Units *, Unit Cost, Applied Units *, and Rate 1. The 'Controller' section includes fields for Manufacturer, EPA #, Signal Word, REI, and Active Ingredient. At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

How to Create Fertilizer Products

1. Navigate to the Fertilizers Tab
2. Click “+ Add Fertilizer”
3. Click “Fertilizer Search”
4. Enter name and/or manufacturer of the product to search
5. Select your desired fertilizer
6. Enter information for Form, Purchased Units and Applied Units
 - a. Purchased units are used to calculate report totals
 - b. Applied Units are used for the application rate
7. Enter in the fertilizer analysis. At least one value must be entered.
8. Fill in other desired fields
 - a. If utilizing the material with a connected PTx Trimble display it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
9. Click “Save”

Note: If you cannot find your required fertilizer in step 4, you can type the information into the fields manually.

The screenshot displays the PTx Fertilizer Properties form. The interface includes a sidebar with navigation options and a main content area with the following elements:

- Navigation:** Map, Setup, Fields, Crop Zones, Equipment, Materials (selected), Crops, People, Plan, Track, Analytics, Data Transfer.
- Form Tabs:** MATERIALS, CROP PROTECTION, FERTILIZERS (selected), LIME, SEEDS, WATER, TANK MIXES.
- Fertilizer Properties Section:**
 - Use Fertilizer Search to find additional information about the material.
 - FERTILIZER SEARCH** button.
 - Name *** (text input)
 - Manure Source** (checkbox)
 - Nitrification Inhibitor** (checkbox)
 - Form *** (dropdown menu: Choose...)
 - Purchased Units *** (dropdown menu: Choose a Form...)
 - Unit Cost** (text input)
 - Applied Units *** (dropdown menu: Choose a Form...)
 - Rate 1** (text input)
- Nutrients Section:**
 - Tabs: Nutrients (selected), Controller, Details.
 - Nutrients Table:**

Nutrient	Value	Unit	Action
Nitrogen		%	X
Phosphorus		%	X
Potassium		%	X
Sulfur		%	X
 - + ADD ANOTHER ROW** button.
- Buttons:** CANCEL, SAVE.

How to Create Lime Products

1. Navigate to the Lime Tab
2. Click “+ Add Lime”
3. Enter Name, Purchased Units and Applied Units
 - a. Purchased units are used to calculate report totals
 - b. Applied Units are used for the application rate
4. Fill in other desired information
 - a. If utilizing the material with a connected PTx Trimble display it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
5. Click “Save”

The screenshot displays the PTx Trimble software interface. At the top, there is a navigation bar with the PTx logo, the year 2023, and a dropdown for 'Select Crop Zone'. On the left, a sidebar menu includes options like Map, Setup, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for CROP PROTECTION, FERTILIZERS, LIME (selected), SEEDS, WATER, and TANK MIXES. Below these tabs is the 'Lime Properties' form. The form is divided into two sections: 'Lime Properties' and 'Controller'. The 'Lime Properties' section includes fields for Name, Dolomitic (checkbox), Purity % or % Calcium Carbonate Equivalent (set to 100%), Purchased Units (dropdown), Unit Cost, Applied Units (dropdown), Rate 1, % Passing Mesh Size 10 (Required for use in Rec.), % Passing Mesh Size 50 (Required for use in Rec.), and Neutralizing Value (Calculated) set to 0.00. The 'Controller' section includes Rate 2, Rate Increment, Minimum Rate, Maximum Rate, and Density (set to lbs / ft³). At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

How to Create Seed Products

1. Navigate to the Seeds Tab
2. Click “+Add Seed”
3. Click “Seed Search”
4. Use Name, Crop and Manufacturer fields to find your desired seed
5. Enter Purchased Units and Applied Units
 - a. Purchased units are used to calculate report totals
 - b. Applied Units are used for the application rate
6. Fill in other desired information
 - a. If utilizing the material with a connected PTx Trimble display it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
7. Click “Save”

Note: If you cannot find your required seed in step 4, you can type the information into the fields manually.

The screenshot shows the PTx Trimble software interface. The top navigation bar includes the PTx logo, the year 2023, and a 'Select Crop Zone' dropdown. The left sidebar contains a 'Setup' menu with options for Map, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for CROP PROTECTION, FERTILIZERS, LIME, SEEDS (active), WATER, and TANK MIXES. Below the tabs is the 'Seed Properties' section, which includes a 'SEED SEARCH' button and a 'Details' tab. The form contains the following fields: Name * (text input), Crop * (dropdown menu with '+ Add Crops' link), Subcrop (dropdown menu), Purchased Units * (dropdown menu), Unit Cost (text input), Applied Units * (dropdown menu), Rate 1 (text input), Manufacturer (text input), and Traits (text input). At the bottom right, there are 'CANCEL' and 'SAVE' buttons.

How to Create Water Materials

1. Navigate to the Water Tab
2. Click “+ Add Water”
3. Enter Name, Purchased Units & Applied Units
 - a. Purchased units are used to calculate report totals
 - b. Applied Units are used for the application rate
4. Enter other desired information
5. Click “Save”

The screenshot shows the PTx application interface for setting up Water materials. The top navigation bar includes the PTx logo, the year 2023, and a 'Select Crop Zone' dropdown. A sidebar on the left lists various setup categories: Map, Setup, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and features tabs for CROP PROTECTION, FERTILIZERS, LIME, SEEDS, WATER (selected), and TANK MIXES. Below these tabs is the 'Water Properties' section, which contains several input fields: Name *, Purchased Units * (a dropdown menu), Applied Units * (a dropdown menu), Unit Cost, Rate 1, Rate 2, Rate Increment, Minimum Rate, and Maximum Rate. Each of these fields is accompanied by a slider control. At the bottom right of the form, there are two buttons: a yellow 'CANCEL' button and a dark green 'SAVE' button.

How to Create Tank Mixes

1. Navigate to the Tank Mixes Tab
2. Click “Add Mix”
3. Enter information into Name & Form Fields
4. Choose how to set the rates of your ingredients
 - a. Define mix as rates: Use when defining the tank mix by the rate to be applied for each ingredient (often used to create the mix before the application)
 - b. Define mix as quantity: Use when defining the tank mix by a total volume of each ingredient (often used to create the mix once you know how much product was already applied)
5. Designate your tank size: Size of the tank mix batch used to create the ratio of ingredients relative to the carrier volume
6. Click “+ Add Ingredient To Recipe” to add materials to the mix
7. Select the checkbox of the material to add to the mix and hit “Ok”
8. Enter the amount of the material in the mix
9. Fill in other desired information
 - a. If utilizing the material with a connected PTx Trimble display it is recommended to complete Rate 1 plus the Controller settings so that the terminal has the correct information to execute the material application
10. Click “Save”

The screenshot shows the PTx FarmENGAGE interface for creating a tank mix. The top navigation bar includes the PTx FarmENGAGE logo, the year 2025, a 'Select Crop Zone' dropdown, and notification icons. The left sidebar contains a 'Setup' menu with options for Map, Fields, Crop Zones, Equipment, Materials (highlighted), Crops, People, Plan, Track, Analytics, and Data Transfer. The main content area is titled 'MATERIALS' and has tabs for CROP PROTECTION, FERTILIZERS, LIME, SEEDS, WATER, and TANK MIXES. The 'TANK MIXES' tab is active, showing the 'Tank Mix Properties' form. The form includes the following fields and options:


- Name *: Touchdown Mix
- Form *: Liquid
- Carrier: water
- Rate 1: 37.07 L / ha
- Mix Rate *: 37.07 L / ha
- Mix Cost: \$0.00 / L
- Options: Define mix as rates, Define mix as quantities

On the right side of the form, there are tabs for 'Details' and 'Controller'. Below these is a table with the following data:

Ingredient	Cost	Rate
TOUCHDOWN TOTAL	/ gal	0.47 gal / ha
Pursuit	/ l	0.49 l / ha

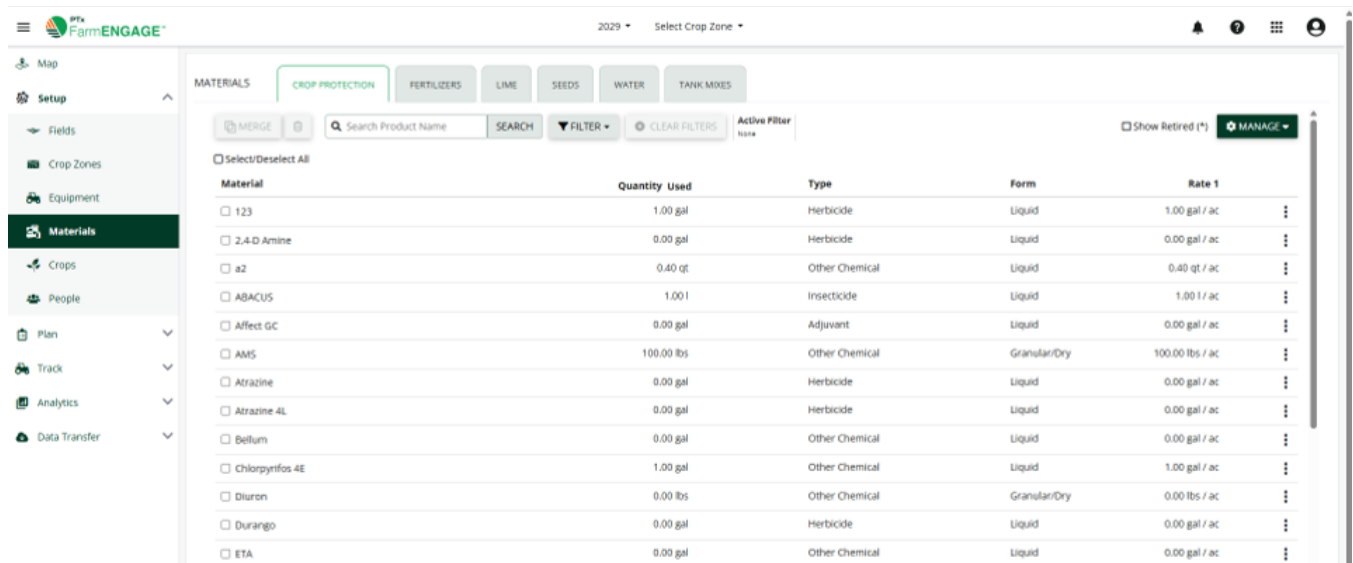
Below the table is a green button labeled '+ ADD INGREDIENTS TO RECIPE'. At the bottom right of the form are two buttons: 'CANCEL' and 'SAVE'.

How to Edit Materials

1. Navigate set-up > materials
2. Navigate to the tab of the material you want to edit
3. Click the three dots icon  on the right of the material and select 'Edit Material'
4. Make and required changes and then click 'Save'

How to View Material Usage


1. Total material quantity used in equipment activity tasks and crop zone activities (mobile and web) in the given year (season selected in the dropdown) will be displayed on the material list pages.



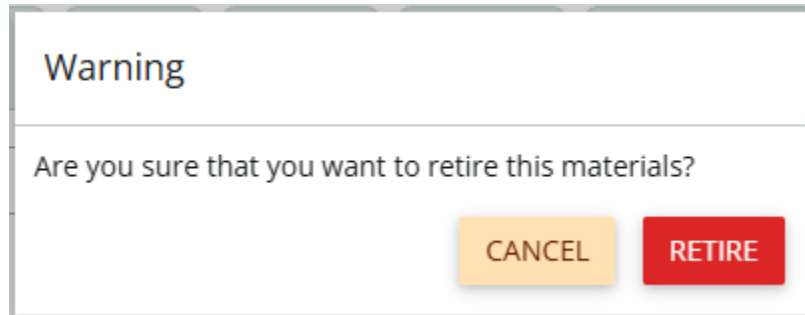
The screenshot displays the FarmENGAGE interface for the 'MATERIALS' section. The top navigation bar includes the FarmENGAGE logo, the year '2020', and a 'Select Crop Zone' dropdown. Below the navigation bar, there are tabs for 'CROP PROTECTION', 'FERTILIZERS', 'LIME', 'SEEDS', 'WATER', and 'TANK MIXES'. The 'CROP PROTECTION' tab is active. The main content area features a search bar with 'Search Product Name', a 'SEARCH' button, a 'FILTER' dropdown, and a 'CLEAR FILTERS' button. There is also a 'Show Retired (*)' checkbox and a 'MANAGE' button. The table below lists various materials with their respective quantities and types.

Material	Quantity Used	Type	Form	Rate 1
<input type="checkbox"/> 123	1.00 gal	Herbicide	Liquid	1.00 gal / ac
<input type="checkbox"/> 2,4-D Amine	0.00 gal	Herbicide	Liquid	0.00 gal / ac
<input type="checkbox"/> aZ	0.40 qt	Other Chemical	Liquid	0.40 qt / ac
<input type="checkbox"/> ABACUS	1.00 l	Insecticide	Liquid	1.00 l / ac
<input type="checkbox"/> Affect GC	0.00 gal	Adjuvant	Liquid	0.00 gal / ac
<input type="checkbox"/> AMS	100.00 lbs	Other Chemical	Granular/Dry	100.00 lbs / ac
<input type="checkbox"/> Atrazine	0.00 gal	Herbicide	Liquid	0.00 gal / ac
<input type="checkbox"/> Atrazine 4L	0.00 gal	Herbicide	Liquid	0.00 gal / ac
<input type="checkbox"/> Bellum	0.00 gal	Other Chemical	Liquid	0.00 gal / ac
<input type="checkbox"/> Chlorpyrifos 4E	1.00 gal	Other Chemical	Liquid	1.00 gal / ac
<input type="checkbox"/> Diuron	0.00 lbs	Other Chemical	Granular/Dry	0.00 lbs / ac
<input type="checkbox"/> Durango	0.00 gal	Herbicide	Liquid	0.00 gal / ac
<input type="checkbox"/> ETA	0.00 gal	Other Chemical	Liquid	0.00 gal / ac


How to Retire Materials

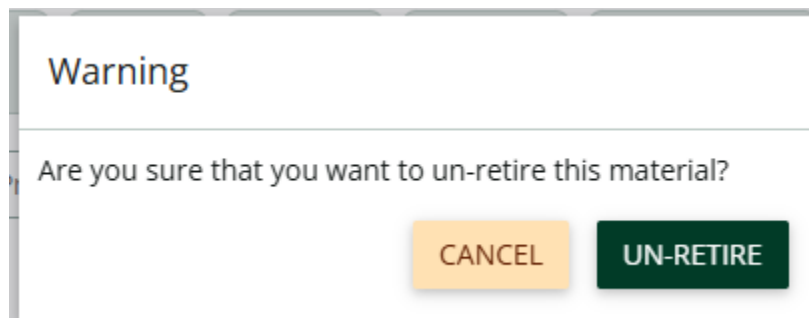
1. Navigate set-up > materials
2. Navigate to the tab of the material you want to retire
3. Click the three dots icon  on the right of the material and select 'Retire Material'
4. Click 'Retire' on the pop-up

Note: When a material is retired, it will be removed from AutoSync connected PTx Trimble displays. To make the material available again, it must first be unretired.



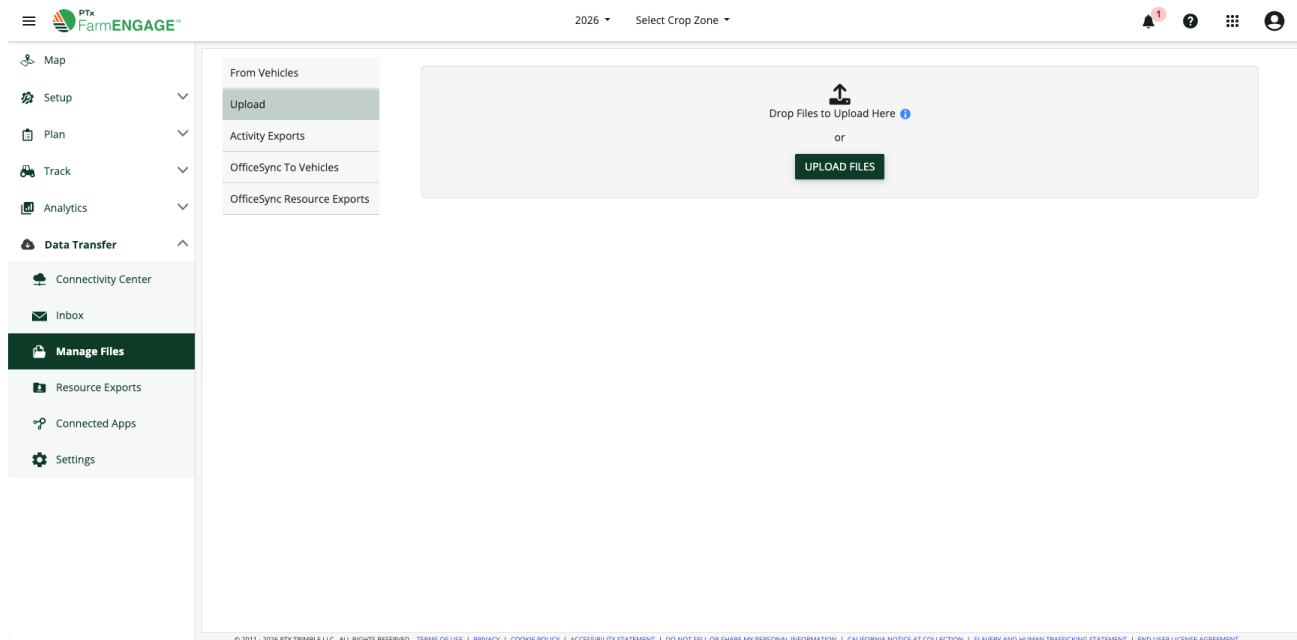
How to Unretire Materials

1. Navigate set-up > materials
2. Navigate to the tab of the material you want to unretire
3. Click the 'Show Retired' checkbox
4. Click the three dots icon  on the right of the retired material and select 'Unretire Material'
5. Select 'Un-Retire' in the pop-up



How to Import Materials via Task Upload

1. Navigate to Data Transfer > Manage Files > Upload
2. Click 'Upload Files' or drag/drop your file into the webpage
 - a. Note: More file types are supported when clicking the 'Upload Files' button
3. Select your file containing as-applied machine data collected from displays
4. Choose the upload method 'File from a display to be imported into FarmENGAGE' and click 'Next'
5. Select the file type of the import and click 'Next'
 - a. Currently Supported File Types:
 - i. AgGPS Folder
 - ii. Precision-IQ AgData Folder (Trimble TMX-2050, GFX-750, GFX-350, GFX-1060, GFX-1260, XCN-1060 or XCN-1260)
 - iii. CNH Voyager 2 (CN1 folder)
 - iv. ISO TaskData folder
 - v. John Deere GS3 or GS4 (GS3_2630 or JD-Data folder)
 - vi. Ag Leader (AGDATA folder)
 - vii. Binary Job Data (Raven)
 - viii. FMIS Job Data (Raven)
 - ix. Loup RDS
 - x. Precision Planting 20/20 Monitor Files (*.2020)
6. File Upload will begin, click 'Finish' button
7. Navigate to Data Transfer > Manage Files > From Vehicles
8. The uploaded file will show in the list, once the status is updated to 'Processed' Materials included in the task file will be available in the organization at Setup > Materials



Upload File ✕

Select the upload method.

File from a display to be imported into FarmENGAGE

File to be sent to an OfficeSync display

Upload a prescription

CANCEL NEXT

Upload File ✕

Select the type of file being imported.

AgGPS Folder (Trimble CFX-750, FmX, or TMX-2050 FmX+)

Precision-IQ AgData Folder (Trimble TMX-2050, GFX-750, GFX-350, GFX-1060, GFX-1260, XCN-1060 or XCN-1260)

CNH Voyager 2 (CN1 folder)

ISO (TaskData folder) ⓘ

John Deere GS3 or GS4 (GS3_2630 or JD-Data folder)

Ag Leader (AGDATA file)

Binary Job Data (Raven)

FMIS Job Data (Raven)

Loup RDS

Precision Planting 20/20 Monitor Files (*.2020)

PREVIOUS CANCEL NEXT

How to Merge Materials

1. Navigate to Setup > Materials > Desired Material Type
2. Check checkbox on 2 or more materials
3. Click 'Merge' button
4. Select which material to merge into
5. The selected material will remain in the list and the merged material is retired

MATERIALS

CROP PROTECTION FERTILIZERS LIME SEEDS WATER TANK MIXES

MERGE SEARCH CLEAR FILTERS Active Filter: None Show Retired (*) + ADD PRODUCT

Merge selected materials

Select/Deselect All

Material	Total Quantity Used	Type	Form	Rate 1	
<input type="checkbox"/> Chemical Mix	0.000 gal	Other Chemical	Liquid	2.64 gal / ha	⋮
<input checked="" type="checkbox"/> CLASS ACT NEXT GENERATION	0.000 gal	Adjuvant	Liquid	0.00 fl oz / ha	⋮
<input type="checkbox"/> Dicamba	0.000 gal	Herbicide	Liquid	fl oz / ha	⋮
<input checked="" type="checkbox"/> Fusa	0.000 gal	Other Chemical	Liquid	gal / ha	⋮
<input type="checkbox"/> HALEX GT (US)	0.000 gal	Herbicide	Liquid	0.45 pt / ha	⋮
<input type="checkbox"/> liquid	0.000 gal	Other Chemical	Liquid	gal / ha	⋮
<input type="checkbox"/> liquid Copy	0.000 gal	Other Chemical	Liquid	234.58 gal / ha	⋮
<input type="checkbox"/> Pursuit	0.000 l	Herbicide	Liquid	0.49 l / ha	⋮

PREVIOUS 25 NEXT25 Showing 1 to 8 of 8 materials.

Merge Materials

Select the resource to merge into.

- Pursuit
- TOUCHDOWN TOTAL

CANCEL MERGE

How to Resolve Red (i) on Materials

If there is a PTx Trimble display in your org and there are materials in your list with a red (i), Controller Details must be added to use the material for rate control on PTx Trimble displays.

1. Navigate to Setup > Materials
2. Hover over the red (i) on a material
3. Click 'Add Controller Details' > User is redirected to the edit material workflow with controller details shown
4. Input Rate 1, Rate 2, Rate Increment, Minimum Rate, and Maximum Rate
 - a. Note: Rate 2 cannot be less than the minimum rate; maximum rate cannot be less than or equal to the minimum rate; rate 1 cannot exceed the maximum rate
5. Click the save button
6. The red (i) will be removed and the material is now compatible for rate control on PTx Trimble displays

The screenshot shows the PTx Trimble Materials management interface. At the top, there are navigation tabs for MATERIALS, CROP PROTECTION, FERTILIZERS, LIME, SEEDS, WATER, and TANK MIXES. A search bar is present with a 'SEARCH' button and a 'CLEAR FILTERS' button. An 'Active Filter' dropdown is set to 'None'. A 'Show Retired (*)' checkbox is unchecked, and a '+ ADD PRODUCT' button is visible.

A tooltip titled 'Controller Details Needed' is displayed over the material list. It contains the text: 'To use this material for rate control on a Precision-IQ display, add controller details.' and a link 'Add Controller Details'.

The material list shows one entry: 'Chemical Mix' with a red (i) icon, a total quantity of 0.000 gal, type 'Other Chemical', form 'Liquid', and a rate of 2.64 gal / ha.

Below the list, the 'Product Properties' section is visible. It includes a 'Change Type' dropdown and a 'Use Product Search to find additional information about the material.' instruction. A 'PRODUCT SEARCH' button is present. The 'Controller' tab is active, showing fields for Rate 2, Rate Increment, Minimum Rate, and Maximum Rate, each with a unit of 'gal / ha'. The 'Details' tab is also visible.

At the bottom right, there are 'CANCEL' and 'SAVE' buttons.