1999 TRI Calculations
Feed Mill A
Podunk, GA

Instructions

General
This spreadsheet is set up for data entry by ingredient. Page 2 is a summary and requires no input.
Input data in shaded blocks on pages 3 through 6, all other fields are calculated.
The file will utilize up to eight ingredients.
You must enter the name, amount used, and percentage constituents for each ingredient.
If you do not have 8 ingredients, you must remove the name and amount used for those you do not have.

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TRI Reporting Applicability

| | Total Amount Processed | | |
|---|---|---|---|
| Copper Compounds | 176,500 | Pounds | REPORTABLE |
| Manganese Compounds | 68,400 | Pounds | REPORTABLE |
| Zinc Compounds | 41,600 | Pounds | REPORTABLE |
| Selenium Compounds | 8,750 | Pounds | NOT REPORTABLE |
| Arsenic Compounds | 4,275 | Pounds | NOT REPORTABLE |
| Formaldehyde | 8,250 | Pounds | NOT REPORTABLE |

TRI Releases

| | |
|---|---|
| Does Your Pellet Cooler have a cyclone? (Yes or No) | No |
| Does Your Pellet Cooler have a high efficiency cyclone? (Yes or No) | Yes |

AP-42 Emission Factor 0.1633 Pounds per Ton

| | Total Amount Released | | Form R or Form A |
|---|---|---|---|
| Copper Compounds | 5 | Pounds | FORM A |
| Manganese Compounds | 3 | Pounds | FORM A |
| Zinc Compounds | 2 | Pounds | FORM A |
| Selenium Compounds | NO REPORT | Pounds | FORM R |
| Arsenic Compounds | NO REPORT | Pounds | FORM R |
| Formaldehyde | NO REPORT | Pounds | FORM R |

If NO REPORT is indicated, ignore the entry in the Form R or Form A block.

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Ingredient 1

| Name | Copper Sulfate | | Amount Used | 150,000 | pounds |
|---|---|---|---|---|---|

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | 99.0% | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 148,500 | pounds |
| Total Copper | 59,400 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 2

| Name | Copper Citrate | | Amount Used | 20,000 | pounds |
|---|---|---|---|---|---|

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | 100.0% | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 20,000 | pounds |
| Total Copper | 4,051 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 3

Name: Trace Metal 435 — Amount Used: 200,000 pounds

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | 4.0% | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | 25.9% | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | 8.3% | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | 13.9% | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | 6.9% | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 8,000 | pounds |
| Total Copper | 2,813 | pounds |
| Total Manganese Compounds | 68,400 | pounds |
| Total Manganese | 31,727 | pounds |
| Total Zinc Compounds | 41,600 | pounds |
| Total Zinc | 22,298 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 4

Name: Roxarsone — Amount Used: 75,000 pounds

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | 5.7% | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 0 | pounds |
| Total Copper | 0 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 4,275 | pounds |
| Total Arsenic | 1,219 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 5

| Name | Termin-8 | Amount Used | 25,000 | pounds |
|---|---|---|---|---|

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | 33.0% | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 0 | pounds |
| Total Copper | 0 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 8,250 | pounds |

Ingredient 6

| Name | Selenium Stuff | Amount Used | 25,000 | pounds |
|---|---|---|---|---|

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | 35.0% | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 0 | pounds |
| Total Copper | 0 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 8,750 | pounds |
| Total Selenium | 6,647 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 7

Name | | Amount Used | | pounds

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 0 | pounds |
| Total Copper | 0 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |

Ingredient 8

Name | | Amount Used | | pounds

Composition

| Chemical | Classification | Formula | Percent in Ingredient | Percent Reprotable Chemical |
|---|---|---|---|---|
| Copper Sulfate | Copper Compound | CuSO4 | | 40.0% |
| | Copper Compound | C6H4Cu2O7 | | 20.3% |
| | Copper Compound | Cu2OH3Cl | | 35.2% |
| Manganese Sulfate | Manganese Compound | MnSO4 | | 36.4% |
| Manganese Oxide | Manganese Compound | MnO | | 77.5% |
| Zinc Sulfate | Zinc Compound | ZnSO4 | | 40.4% |
| Zinc Oxide | Zinc Compound | ZnO | | 80.2% |
| Sodiun Selenite | Selenium Compound | NaSn | | 76.0% |
| See below | Arsenic Compound | HOC6H3(NO2)AsO(OH)2 | | 28.5% |
| Formaldehyde | Formaldehyde | | | 100.0% |

The Arsenic Compound is 3-nitro-4-hydroxyphenylarsonic acid

| | | |
|---|---|---|
| Total Copper Compounds | 0 | pounds |
| Total Copper | 0 | pounds |
| Total Manganese Compounds | 0 | pounds |
| Total Manganese | 0 | pounds |
| Total Zinc Compounds | 0 | pounds |
| Total Zinc | 0 | pounds |
| Total Selenium Compounds | 0 | pounds |
| Total Selenium | 0 | pounds |
| Total Arsenic Compounds | 0 | pounds |
| Total Arsenic | 0 | pounds |
| Total Fomraldehyde | 0 | pounds |