

ORGANIC FERTILIZERS E BOOKS



**ORGANIC GEL  
FERTILIZER  
FORMULATIONS  
E – BOOKS**

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FORMULATIONS**

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**( 5 – 0 – 0 + % 30 ORGANIC SUBSTANCES )**

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**GEL ORGANIC - MINERAL FERTILIZER  
( 5 - 0 - 0 + % 30 ORGANIC SUBSTANCES )**

NO	<b>CHEMICALS</b>	W/W
1	MOLASSES ( %50 ORGANIC, % 4 N, % 3 K <sub>2</sub> O )	60
2	MAGNESIUM SULFATE ANHYDROUS	3.5
3	CITRIC ACID	0.5
4	UREA	5.65
5	WATER	30.35
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Put water and molasses into the mixing tank. Start to stir. Add urea and citric acid. Continue to mix. Add magnesium sulfate anhydrous and mix. Stirring is continued until mixture is gel. If gel desired is enough, process is completed. The mixture is packed.

**NOTE:** In the above **gel organic fertilizer** has % 30 organic matter. Also, it contains % 5 N ( nitrogen ) coming from molasses and urea and % 1,8 K<sub>2</sub>O ( potassium oxide ) coming from molasses. The citric acid helps to easier absorption for roots and adjust PH to mixture produced.

**NOTE:** This analysis is only theoretical. Because this values depend on the values of the molasses. Actual values, the analysis carried out on the production product.

**GEL ORGANIC - MINERAL FERTILIZER**  
**( 5 - 0 - 0 + Zn + % 30 ORGANIC SUBSTANCES )**

NO	<b>CHEMICALS</b>	W/W
1	MOLASSES ( %50 ORGANIC MATTER )	60
2	MAGNESIUM SULFATE ANHYDROUS	3.5
3	CITRIC ACID	0.5
4	UREA	5.65
5	ZINC SULFATE MONOHYDRATE	2.80
6	WATER	27.55
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Put water and molasses into the mixing tank. Start to stir. Add urea, citric acid and zinc sulfate monohydrate. Continue to mix. Finally, add magnesium sulfate anhydrous and mix. Stirring is continued until mixture is gel. If gel desired is enough, process is completed. The mixture is packed.

**NOTE:** In the above **gel organic fertilizer** has % 30 organic matter. Also, it contains % 5 N ( nitrogen ) coming from molasses and urea and % 1,8 K<sub>2</sub>O ( potassium oxide ) coming from molasses. Additionally, It has % 1 Zn ( Zinc ). The citric acid helps to easier absorption for roots and adjust PH to mixture produced.

**NOTE:** This analysis is only theoretical. Because this values depend on the values of the molasses. Actual values, the analysis carried out on the production product.

**GEL ORGANIC - MINERAL FERTILIZER**  
**( 5 - 0 - 0 + MgO + % 30 ORGANIC SUBSTANCES )**

NO	<b>CHEMICALS</b>	W/W
1	MOLASSES ( %50 ORGANIC MATTER )	60
2	MAGNESIUM SULFATE ANHYDROUS	3.5
3	CITRIC ACID	0.5
4	UREA	4
5	MAGNESIUM NITRATE	6.70
6	WATER	25.30
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Put water and molasses into the mixing tank. Start to stir. Add urea, citric acid and magnesium nitrate. Continue to mix. Finally, add magnesium sulfate anhydrous and mix. Stirring is continued until mixture is gel. If gel desired is enough, process is completed. The mixture is packed.

**NOTE:** In the above **gel organic fertilizer** has % 30 organic matter. Also, it contains % 5 N ( nitrogen ) coming from molasses, urea and magnesium nitrate and % 1,8 K<sub>2</sub>O ( potassium oxide ) coming from molasses. Additionally, It has % 1 MgO ( Magnesium oxide ). The citric acid helps to easier absorption for roots and adjust PH to mixture produced.

**NOTE:** This analysis is only theoretical. Because this values depend on the values of the molasses. Actual values, the analysis carried out on the production product.

**GEL ORGANIC - MINERAL FERTILIZER  
( 5 - 0 - 0 + TE + % 30 ORGANIC SUBSTANCES )**

NO	<b>CHEMICALS</b>	W/W
1	MOLASSES ( %50 ORGANIC, % 4 N, % 3 K <sub>2</sub> O )	60
2	MAGNESIUM SULFATE ANHYDROUS	3.5
3	CITRIC ACID	0.5
4	UREA	5.65
5	ZINC SULFATE MONOHYDRATE ( % 35.5 Zn )	0.0280
6	COPPER SULFATE MONOHYDRATE ( % 25 Cu )	0.080
7	BORIC ACID ( % 17.5 B )	0.170
8	SODIUM MOLYBDATE ( % 39.2 Mo )	0.100
9	WATER	30
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Put water and molasses into the mixing tank. Start to stir. Add urea and citric acid. Continue to mix. Add another ingredients and stir. Finally, add magnesium sulfate anhydrous and mix. Stirring is continued until mixture is gel. If gel desired is enough, process is completed. The mixture is packed.

**NOTE:** In the above **gel organic fertilizer** has % 30 organic matter. Also, it contains % 5 N ( nitrogen ) coming from molasses and urea and % 1,8 K<sub>2</sub>O ( potassium oxide ) coming from molasses. Additionally, It has % 0.04 Mo, % 0.03 B, % 0.02 Cu and % 0.01 Zn. The citric acid helps to easier absorption for roots and adjust PH to mixture produced.

**NOTE:** This analysis is only theoretical. Because this values depend on the values of the molasses. Actual values, the analysis carried out on the production product.



