

ORGANIC FERTILIZES FORMULATIONS ENCYCLOPEDIA

**LIQUID**

**ROOT GROWTH FERTILIZERS**

**PRODUCTIONS**

**AND**

**PROCESSES**

**E – TEXTBOOKS**

SOLVERCHEM PUBLICATIONS

**ORGANIC FERTILIZES FORMULATIONS ENCYCLOPEDIA**



**E – TEXTBOOK AUTHOR**

**YUSUF AKKAPILI**

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## **ORGANIC FERTILIZES FORMULATIONS ENCYCLOPEDIA**



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**LIQUID**

**ROOT GROWTH**

**FERTILIZERS**

**FORMULATIONS**

**LIQUID  
ROOT GROWTH FERTILIZER – 1**

NO	<b>CHEMICALS</b>	W/W
1	PHOSPHORIC ACID ( % 61 P <sub>2</sub> O <sub>5</sub> )	5
2	AMMONIUM NITRATE ( % 33 N )	8
3	MOLASSES ( % 51 ORGANIC, % 2 N, % 8 K <sub>2</sub> O )	20
4	POTASSIUM LIGNOSULFONATE ( % 56 ORGANIC MATTER AND % 11 K <sub>2</sub> O )	18
5	WATER	49
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Firstly, Add water and molasses in the mixing tank. Start to stir. Then, Add phosphoric acid. Continue to stir. Add ammonium nitrate and mix. Add potassium lignosulfonate. Stirring is continued until mixture is homogenous. If homogenous is enough. The process is completed and mixture is packed.

**NOTE:** In the above liquid root growth fertilizer has % 20 organic substances. Also It contains % 3 N ( Nitrogen ) coming from molasses and ammonium nitrate, % 3 P<sub>2</sub>O<sub>5</sub> ( Phosphor penta oxide ) and % 2 K<sub>2</sub>O ( Potassium oxide ) coming from molasses.

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

**LIQUID  
ROOT GROWTH FERTILIZER – 2**

NO	<b>CHEMICALS</b>	W/W
1	PHOSPHORIC ACID ( % 61 P <sub>2</sub> O <sub>5</sub> )	5
2	UREA ( % 46 N )	6.5
3	POTASSIUM LIGNOSULFONATE ( % 56 ORGANIC, % 11 K <sub>2</sub> O )	35.70
4	WATER	52.80
	<b>TOTAL</b>	<b>100</b>

**PROCESS:** Firstly, Add water and phosphoric acid in the mixing tank. Start to stirr. Then, Add potassium lignosulfonate. Continue to stirr. Add urea and mix. Stirring is continued until mixture is homogenous. If homogenous is enough. The process is completed and mixture in the tank is packed.

**NOTE:** In the above liquid root growth fertilizer has % 20 organic substances. Also It contains % 3 N ( Nitrogen ), % 3 P<sub>2</sub>O<sub>5</sub> and % 4 K<sub>2</sub>O ( Potassium oxide ) coming from potassium lignosulfonate.

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

