MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION

SOIL ACTIVATOR AridGrow® LHSA-C

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Liquid humic ameliorant-soil improver of a long-acting effect **SOIL ACTIVATOR AridGrow® LHSA-C** is applied **ONLY THREE TIMES** per Year or One Harvest Season for activization of the soil recovery processes and improving fertility of the desert, arid, exhausted and degraded soils in an environmentally safe manner at the molecular level.

It is used as a water solution of the product **1:100** (1 liter of concentrate per 100 liters of water) for irrigation, watering or spraying as for population, so for agriculture. It acts for a long period of time significantly improving the agro-chemical and water-physical properties of the soils.

Depending on a degree of depletion or degradation of the soils, consumption of the product is increased or reduced. In the desert or arid soils application rates must be increased up to 2-3 times, but in regularly cultivated, arable soils application rates must be reduced by 2-3 times. The following table shows average level of consumption of the product for the regularly cultivated moderately fertile soils.

FOR ORNAMENTAL PLANTS

Culture	Method of Application	Qty	Application Rates		Application Results
			For Population	For Agriculture	
1. Indoor Plants and Flowers (potted)	1. Watering in a phase of active growth every 14 days	3 Times	10 ml per 1,0 l of water per 10 plants	5 l per 500 l of water per 1 ha	Stimulates growth and development, accelerates and extends budding and abundant blooming, intensity and brightness of leaves and flowers
	2. Spraying* at the first signs of disease or decay	1 Time	5 ml per 0,5 l of water per 10 plants	2,5 l per 250 l of water per 1 ha	Increases resistance to disease and wilt, raises ornamental qualities and formation of more new shoots, branches, buds, leaves & flowers
2. Outdoor Plants and Flowers (Roses etc.)	1. Watering in the wake of kidneys, phase of active growth and buds every 14 days	3 Times	20 ml per 2,0 l of water per 10 plants	5 l per 500 l of water per 1 ha	Stimulates growth and development, accelerates and extends budding and abundant blooming, intensity and brightness of leaves and flowers
	2. Spraying* at the first signs of disease or decay	1 Time	10 ml Per 1,0 l of water per 10 plants	2,5 l per 250 l of water per 1 ha	Increases resistance to disease, wilt, heat and frost, raises formation of more new shoots, branches, buds, leaves & flowers and ornamental qualities
3. Turf Grass	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5,0 l of water per 10 kg of seeds	5 l per 500 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, disease resistance
	2. Watering in the early spring every 14 days	3 Times	0,5 l per 50 l of water per 100 м^2	5 l per 500 l of water per 1 ha	Improves ornamental qualities and brightness, increases resistance to disease and wilt
4. Wood Trees Deciduous and Coniferous (Indoor & Outdoor)	Watering in a root zone immediately after replanting and then every 14 days	3 Times	1,0 l per 100 l of water per 10 nursery transplants	10 l per 1 t of water per 100 nursery transplants	Stimulates growth and development, accelerates and extends budding and abundant blooming, intensity and brightness of leaves and flowers, increases resistance to disease wilt, heat and frost

FOR AGRICULTURAL USE

5. Winter crops rye and wheat, spring barley, oilseed rape, millet, triticale, buckwheat, mustard and etc.	1. Seed treatment, together with protectants	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* in the phase of tillering and tubing every 14 days	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases crop yielding capacity and reduces time of maturation, improves product quality
6. Legumes: peas, beans, corn, broad beans and etc.	1. Seed treatment, together with protectants	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* in the phase of tillering and tubing every 14 days	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases crop yielding capacity and reduces time of maturation, improves product quality
7. Fiber Flax	1. Spraying* in the phase of "fir tree"	1 Time	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* in the phase of budding	2 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases crop yielding capacity and reduces time of maturation, improves product quality
8. Perennial herb: clover, alfalfa, tea, cotton, bananas, and etc.	Spraying in early spring every 14 days and after each harvesting	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases productivity, crop yielding capacity and reduces time of maturation, improves product quality
9. Greenery: salad, cilantro, parsley, dill, fennel and etc.	Spraying* in the phase of growing season every 14 days	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases productivity, crop yielding capacity and reduces time of maturation, improves product quality
10. Onion, Garlic	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg	5 l per 500 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* in the phase of active growth every 14 days	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Increases productivity, crop yielding capacity and reduces time of maturation, improves product quality
11. Wild strawberry, garden strawberry and etc.	Watering in 2 weeks after planting and then every 14 days after each harvesting	3 Times	50 ml per 5 l of water per 10 м^2	5 l per 500 l of water per 1 ha	Stimulates growth and development, increases productivity, crop yielding capacity and reduces time of maturation, resistance to disease and wilt, heat and frost, improves product quality

12. Potatoes	1. Soaking the tubers before planting	1 Time	100 ml Per 10 l of water per 100 kg of tubers	1 l per 100 l of water per 1 MT of tubers	Stimulates growth and development of tubers, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* when full sprouting and in a phase of budding	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of tubers, yielding capacity, reduces time of maturation, improves product quality
13. Carrot, beetroot, sugar beet and etc.	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Stimulates growth and development of seeds, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* of vegetating plants in a phase of full sprouting	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of root crops, yielding capacity, reduces time of maturation, improves product quality
14. Melons: watermelon, cantaloupe, pumpkin and etc.	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* of vegetating plants in a phase of full sprouting	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of melon crops, yielding capacity, reduces time of maturation, improves product quality
15. Cabbages	1. Soaking the roots of seedlings into a "mash" of 1% solution & clay	1 Time	100 ml per 10 l of «mash»	1 l per 100 l of «mash»	Improves growth and development of seedlings, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* Seedlings in the phase of 2-3 leaves and 1 week before planting	2 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Stimulates rooting and survival rates
	3. Spraying* after planting and in a phase of cabbage head forming every 14 days	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of cabbage heads, yielding capacity, reduces time of maturation, improves product quality
16. Solanaceae: eggplant, pepper, nightshade, chili and etc.	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Improves seeds germination, stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	2. Spraying* of vegetating plants in a phase of full sprouting	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of solanaceae crops, yielding capacity, reduces time of maturation, improves product quality

17. Tomatoes (indoor & outdoor)	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg of seeds	5 l per 500 l of water per 1 MT of seeds	Improves seeds germination, raises numbers of wealthy sprouting and disease resistance
	2. Watering seedlings in 3-4 days after pricking, and in 7 days before transplanting into the soil	2 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Stimulates growth and development, raises numbers of wealthy sprouting and disease resistance
	3. Watering in a root zone in 7 days after replanting, in a phase of budding, blooming and then every 14 days before harvesting	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases size and mass of fruits, yielding capacity, reduces time of maturation, improves product quality
18. Cucumbers (indoor & outdoor)	1. Soaking the seeds before planting for 24 hours	1 Time	50 ml per 5 l of water per 10 kg of seeds	0,5 l per 50 l of water per 1 MT of seeds	Improves seeds germination, raises numbers of wealthy sprouting and disease resistance
	2. Watering in a root zone in a phase of 1-2 & 3-4 real leaves and every 14 days before harvesting	3 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Stimulates growth and development, increases size and mass of fruits, yielding capacity, reduces time of maturation, improves product quality
	3. Spraying* at the first signs of disease or decay every 14 days	2 Times	50 ml per 5 l of water per 10 м²	5 l per 500 l of water per 1 ha	Increases resistance to disease and wilt, improves product quality
19. Currant, raspberries, blueberries, gooseberries, grapes and etc.	Watering in a phase of bud burst and active growth every 14 days	3 Times	1 l per 100 l of water per 10 bushes	5 l per 500 l of water per 100 bushes	Stimulates growth and development, increases resistance to disease, wilt, heat & frost, increases size and mass of berries, yielding capacity, reduces time of maturation, improves product quality
20. Apple, pear, plum, cherries, citrus fruits, olives, date palms and etc. (adult fruit trees)	Watering in a root zone immediately after replanting and then every 14 days	3 Times	1 l per 100 l of water per 10 nursery transplants	50 l per 5 t of water per 100 trees	Stimulates growth and development, increases resistance to disease, wilt, heat & frost, increases size and mass of fruits, yielding capacity, reduces time of maturation, improves product quality

***ATTENTION: WHEN SPRAYING AVOID DIRECT CONTACT OF THE PRODUCT WITH FLOWERS OR DO NOT SPRAY INTO THE BLOOMING FLOWERS!**