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Make Human life through Natural vitality







Improving life naturally since 1995, Korea Biochemical Co. Ltd.(KBC) is bringing sustainable harmony to the relationship between mankind and nature. KBC has pioneered the development of eco-friendly and biotechnical products to improve Korea agriculture. Our team of scientists, all of whom have extensive experience in the fields of microbiology and natural materials, carries out research and development projects in wide range of areas. Their work has resulted in a wide range of eco-friendly products to do with crop production, stock raising, environmental restoration, food and alternative energy sources. Of special significance are the advances we have made in microbial pesticides and probiotic products, which are essential for successful organic farming and ecologically friendly agriculture.



•Customer First •Passion •Originality •Responsibility



Value Management
 Communication Managemen
 Talent Management
 Focus Management

Korea Bio Chemical co., Ltd. endeavour to improve our environment and human life.







History

May 1995	Korea Biochemical Co.,Ltd. was founded
Jul 1996	Registered as Company producing Microcial products
Jul 2000	KBC reformed corporate organization and established research institute
Feb 2001	Authorized as Venture Industry by SMBA in Korea
Mar 2002	KBC Research Institute was authorized by KOITA in Korea
Apr 2002	KBC was designated as official test institute for the registration of
	pesticides by Ministry for Food, Agriculture, Forestry & Fishersies
May 2002	KBC research institute move to Jinju Bio 21 center
Sep 2003	KBC products were authorized as ISO9001:2000/KSA9001:2001
Oct 2003	KBC was registered as producing and supplying source of microbial
	pesticides in SMBA
Aug 2005	Mr.Han, Sang-Hoon inaugurated as representative of company
Sep 2005	Inno-Biz certified and registerted in Public Procurement Service
Feb 2007	Quality Control of products was certified by Gyeongnam province
Dec 2007	Source of Microbial pesticides 4 and their products 4 were registered
Jan 2009	8kinds of products of eco-friendly organic farming materials were listed
	in official announcement published by RDA
Nov 2009	2nd manufacturing factory was completed in Jinju
Jun 2011	Built high-tech factory for fermented probiotics
Feb 2012	Automatic filling line equipment
May 2013	Natural plant protectants Registration No. 4
2014	National project in progress

Natural plant protector and organic agricultural material



ZENOTAN

(Biotic fungicide and organic agricultural material)

Volume: 500g

Main Features

Zenotan composed of patented microorganisms native to Korea.

- A safe microbial fungicide that can be used in harvesting because it gives off no residue.
- Can be used for the whole growth period of the plant without any problem in expressing in its resistance against pathogens.
- No mammal and environmental toxicity and is especially safe for beneficial insects, such as honeybees.
- Listed in the official list of organic agricultural materials; can be used safely.

Method of Use				
Crop	Applicable Blight	Right Time for Use and Method	Amount to Use per 20 L of Water	Amount to Use per 1,000 m ² (10 a)
Cucumbe	r	7-day interval foliage treatment from the beginning of occurrence	100g	
Strawberr	У Botrytis-induced diseases	7-day interval foliage treatment before occurrence	100g	Scatter evenly so that the drug liquid can be applied
Ginseng	(Gray mold)	5-day interval foliage treatment from the beginning of occurrence	100g	sufficiently
Pumpkin		5-day interval foliage treatment from the beginning of occurrence	100g	
Lawn gras	Rhizoctonia blight (Large patch)	5-day interval soil drench treatment from the beginning of occurrence	100g	Drench sufficiently with 1 L/m ²

1. Please spray to plants after diluting a fixed amount to be used with water.

2. After planting it (7-day interval), it's good to use it for prevention. Spray it in the interval of 3-5 days from the beginning of occurrence.

Guaranteed ingredient

Active ingredient : → *Bacillus subtilis* KBC1010 1.0 x 10⁵cfu/g

Natural plant protector and organic agricultural material



- As microbial culture that concentrates beneficial microbial culture products and *Ralstonia solanaceaum*-inhibiting microorganisms, the product can prevent plant diseases genersted by *Ralstonia solanaceaum*.
- A safe microbial germicide that can be used in harvesting because it gives off no residue.
- No mammal and environmental toxicity and is especially safe for beneficial insects, such as honeybees.
- Listed in the official list of organic agricultural materials; can be used safely.

Method of Use				
Crop Applicable Blig		ght	Right Time to Use	Amount to Use per 20 L of Water
Tomato Cherry tomato	Bacterial wilt		Every 7-day after planting Drench treatment	100g

1. Please spray to plants after diluting a fixed amount to be used with water.

2. After planting it (7-day interval), it's good to use it for prevention. Spray it in the interval of 3-5 days from the beginning of occurrence.

Guaranteed ingredient

Active ingredient : *Bacillus amyloliquefaciens* KBC1121 1.0 x 10⁶ cfu/g





Vision Restand Vision Restand

- Ttangguemi composed nematode-trapping or predacious fungus can prevent from penetrating Root-knot nematodes.
- A safe microbial nematicide that can be used in harvesting because it gives off no residue.
- Safe for beneficial insects, such as honeybees.

Method of Use

Сгор	Applicable Blight	Right Time to Use	Amount to Use	
Watermelon		Soil incorporation before planting		
Cucumber	Root-knot nematode		3 kg / 1,000 m² (10a)	
Tomato				

1. For full tillage mixing 15 ~ 20cm soil depth so deep into the soil and spread evenly.

2. Auth maintained for three to seven days after the humidity of 60-70% are mixed with the soil and covered with a plastic.

Guaranteed ingredient

Active ingredient : *Monacrosporium thaumasium* KBC3017 1.0 x 10⁴ cfu/g



Natural plant protector and organic agricultural material



FOXINFOXIN (Organic agricultural material)

Volume: 5kg

Main Features

- Product with well-cultured microorganisms from the forest soil of Korea, which is created through a special method.
- An environmental-friendly organic agricultural material completed using a patent technique that is selected as an outstanding technology by KIPA (Korea Invention Promotion Association) with verified efficacy and phytotoxicity.
- An organic agricultural material for soil conditioning and plant growth.

Method of Use and Efficacy

For basal fertilizing: 5 kg of this agent for 1000m² For continuous cropping: 5 kg of this agent for 500m² * Add and subtract it according to the soil's physical and chemical properties.

Guaranteed ingredient

Active ingredient : *Bacillus subtilis* 1.0×10^6 cfu/g







- By activating rhizomicrobial population that is highly decreased when salt is accumulated to make organics or fertilizer ingredient low molecular or minerals (amino acid, nucleic acid, organic acid, vitamin, and various trace elements), the product promotes rootage and growth of crops.
- Because of the organic acid generated by the metabolism of rhizosphere microorganisms, the product solubilizes phosphoric acid insolubilized in soil quickly, and humic acid promotes soil aggregation, thereby improving physical and chemical properties in soil.

Method of Use

Please drench the soil after diluting in 4002~5002 (12/660m²).

Please drench soil 2-3 times on 5-day interval and add or subtract depending on the degree of damage.

Guaranteed ingredient

Active ingredient : *Bacillus subtilis* 1.0×10^{6} cfu/ml



지 1807년 509201 동안3 3시->-4-2 친환경 농업을 추구하는 KBC 73호원20000-62721 영에 관리용 자체				
		RUSA icultural material)		
Volume: 500ml				
Main Features				
Garusa made of plant-derived	d natural extracts.			
= Garusa can prevent from occu	urring powdery mildew.			
Method of Use				
Time of Use	Amount to Use	Method of Use		
At occurrence	400-times diluted solution	Foliage spray for 3 times on 7-day interval		

Guaranteed ingredient

Active ingredient: Plant extract





Natural plant protector and organic agricultural material



YUKIONE Power Silicic Acid

(Organic agricultural material)

Volume: 5kg

Main Features

- Yukione Power Silicic Acid is an organic agricultural material made of zeolite.
- With properties to absorb harmful ingredients and provide special ingredients, the product can enhance the nutrient-holding capacity of soil.
- This product can be used as a soil conditioner for sandy soil, ill-drained paddy soil, salty paddy soil, seedling pots for gardening, and nursery soil for rice.
- Yukione Power Silicic Acid helps plant grow as the ingredients of fertilizer are absorbed in zeolite that affects the soil significantly. It can also be used for conditioning because it maintains adequate soil moisture.

Method of Use

Process 5 kg of the product into and blend it with 1000m² of soil.

Estimate the amount to be used for soil blending depending on the growth condition of crops.

Guaranteed Ingredient

Guaranteed ingredient and content: 100% of zeolite



Function Physiologically Active Product



SAMCHOONGSA

(Insecticidal natural material)

Volume: 500ml

Main Features

Samchoongsa is a product developed by using natural plant extracts.

- With the effect of plant extracts in the product it has good to control pests such as aphids, mites and cabbage worm.
- It is safe for humans, livestock, and crops

Method of Use

Сгор	All Crops
Time of use	Whole growth period
Dilution rate and amount of use (per 20ℓ of water)	500 times (40 ml) – 1000 times (20 ml)
Method of use	Foliage spray to apply the front and back sides of leaves

Active ingredient: Plant extract (Sophora flavescens)







SUNCHOONGE

(Nematicidal microbial agent)

Volume: 1set (500mlx2)

Main Features

- Sunchoonge made by biotechnological method so that native microorganisms in Korea can be used in environmentalfriendly agriculture.
- Excellent effects on the prevention and inhibition of the secondary infections by trapping nematode and predation.
- = Helps with the growth of crops with absorption of nutrient through healthy rhizogenesis.

Method of Use		
Time of Use	Amount to Use	Method to Use
to prevent Root-knot-nematode	500 times of dilution	Cail dranch
to control Root-knot-nematode	500 times of dilution	Soil drench

* The effect can be maximized in drench on 25-day interval during the whole growth period.





INKYEUNGE

(Bulb enlargement, uprooting, and rootage agent)

Volume: 1000ml

Main Features

- = Composed of natural plant hormone, natural sulfur, amino acid compound, and physiologically active substance, this fertilizer enlarges the size of root fruits of garlic, onion, and bulb vegetables.
- This product reduces environment stresses, such as cold-weather damage and frosty injury that occur depending on the nutritive conditions of bulb vegetables as well as the physiological disorders to strengthen hibernation, improve disease endurance, and extend storage.
- The natural sulfur ingredient increases "allicin" content of bulb vegetables to make their own flavor and deeper taste.

Method of Use

500ℓ for foliage spray (500 times of dilution) 1000ℓ for soil drench (1,000 times of dilution) Bulb formation and enlargement period after wintering more than 2-3 times ※ Capacity of the bottle cap: 40 mℓ ※ Use it after shaking well.







Main Features

Induces healthy growth of crops with elements of potassium, iron, and calcium and minerals.

- Shows reduction effect of chemical fertilizer with organic essential nutrients.

_	Method of Use	
	Time of Use	Method of Use
	At occurrence of disorders at poor growth	500 times and 1,000 times drench





- Improves rootage and activates growth.
- A high-purity fast-acting agent and used for foliage fertilization and drench.
- Promotes healthy growth of lawn and enhances disease endurance.

 Method of L	lse		
Crop	Time of Use	Amount of Use	Amount to be Sprayed
Lawn	Overall growth period	1~2ml/m	0.5ℓ/m







JANDI BAKSA (Lawn Doctor)

(High quality inorganic and organic composite fertilizer)

Volume: 20kg

Main Features

- This is a high-quality organic fertilizer that contains a lot of thatch-decomposing microorganisms.
- Teeing ground and fairway mat will be significantly decreased.
- Because the product contains not only nitrogen, phosphoric acid, and potassium but also microelements, such as magnesium, boron, and iron, which can be insufficient in soil, it is effective to secure the balanced growth of plants by decreasing various physiological disorders.
- = Because thatch is decomposed, drainage will become outstanding, and the occurrence of other lawn diseases, such as large patch, will be significantly decreased.
- The high-quality amino acid and humic acid contained in this product will activate soil microorganisms and maintain the biological balance of soil to improve the growth of crops.

Method of Use			
Place of Use	Amount of Use	Time of Use	
Golf Course			
Lawn Sport Turf		When soil temperature rise over than 10° C for the growth of baneficial	
Lawn Garden	40~50g/m	10°C for the growth of beneficial microbes (Spray 2-3 times a year)	
Lawn Park			

Guaranteed ingred	ient	Bacillus s	<i>subtilis</i> 1.0 x 10 ⁶ cfu/g	
Ingredient	Content		Ingredient	Content
Organic	50%		Si	4%
Humic acid/Amino acid	10%		В	0.05%
Ν	4.5%		Mn	0.1%
Р	6%		Fe	0.2%
К	6%		Ze	0.005%
Mg	1%		Мо	0.0015%
Others	Rest			



Lawn Physiologically Active Product



Main Features

- A general nutrient containing a good balance of nutrients necessary for lawn.
- This product can be absorbed into lawn quickly because it contains high concentration amino acid, humic acid, physiologically active substances, etc.
- The product has excellent effect on early recovery from poor growth due to sudden wilting and damaged tissue.
- The product guarantees no concern for soil contamination because it activates microorganisms to decompose organic matters and solubilize insolubilized fertilizers.

_	Method of L	lse		
	Crop	Time of Use	Amount of Use	Amount to be Sprayed
	Lawn	Overall growth period	1~2ml/m	0.5l/m







Even in sandy soil, such as USGA green that lacks active calcium, this product helps plants create root zone.

Method	I OI USE		
Crop	Time of Use	Amount of Use	Amount to be Sprayed
Lawn	1-2 times a month during growth period	1~2ml/m	0.5l/m

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BBURIKIFEUN

(Uprooting and hypertrophy-specialized agent)

Volume: 1000ml

Main Features

- It contains physiologically active agents for Lawn, which are extracted from brown algae seaweed, such as North Atlantic sogasum, ascophyllum, nodosum, and laminaria.
- With the interactions of environment-friendly biological compounds, high-concentration amino acid that is essential to plants and natural chelated mineral elements, this serves as an uprooting and transplanting agent that resolves all kinds of environmental stresses to activate root cells.
- The product improves the nutrient-absorbing capacity of soil in case of poor growth, including succulent growth or root hypotrophy so that healthful crops can be harvested.

Method of Use

Crop	Time of Use	Amount of Use	Amount to be sprayed
Lawn	Overall growth period	1~2ml/m	0.5ℓ/m²





Lawn Physiologically Active Product



Main Features

- This is a liquid silicic acid product that helps growth of graminae such as lawn and crops.
- Because liquid silicic acid relieves nitrogen excess damage, the product not only improves the tolerance of creeping but also increases resistance to blight by promoting its own generation of defensive substance, such as phytotoxin.
- The product helps create chlorophyll within the lawn to activate photosynthesis, thereby promoting crop metabolism.
- The product improves the quality of crops because the nutrients that are essential for hard grass and crops are added.

Method of Use		Use		
	Crop	Time of Use	Amount of Use	Amount to be sprayed
	Lawn	Overall growth period	1~2ml/m	0.5ℓ/m





Main Features

It is a low-nitrogen nutrient that contains various nutrients necessary for lawn growth.

- It induces the healthy growth of lawn because it contains minerals, such as potassium, iron, etc.
- It has reducing effect of chemical fertilizer because of its organic nutrient that is quickly absorbed in the body of lawn.
- It has excellent effects on the improvement of soil environment and lawn quality by activating soil microorganisms.

_	Method c	of Use		
	Crop	Time of Use	Amount of Use	Amount to be sprayed
	Lawn	Overall growth period	1~2ml/m	0.5ℓ/m





Lawn Physiologically Active Product

唐추구하는 KBC 1509001 음질인증 2소4-4호 기술역신(INNO-BIZ)인정	
	SUNBACTA GOLD (Solution material for suppressing replant failure)
	Volume: 500mℓ

Main Features

Sunbacta gold is a soil microbial composite agent manufactured by high-tech culture technique of rhizosphere and seven antagonistic microorganisms purely extracted separately from the forest soil in Korea.

■ Efficacy → solves salt accumulation and continuous cropping hazard, increases absorption of fertilizer, prevents various harmful

gases, promotes the underground part of plant, solves fertilizer concentration hazard, adjusts soil acidity, and inhibits soil damage by harmful insects.

Method of Use

Crop	Time of Use	Amount of Use	Amount to be sprayed
Lawn	Overall growth period	0.5~1ml/m	1ℓ/m

Guaranteed ingredients

• Bacillus subtilis

Additional ingredients

- Enterobacter agglomerans
- Cellulomonas fimi
- Bacillus megaterium
- Staphylococcus xylosus
- Pseudomonas putida
- Pseudomonas fluorescens



델티포스 [®] 유키 /-		
월다 소스 유기 고기능 복활 생균 호소체 Multi-Enzyme & Probletics	DELTA FORCE YUCCA (Animal husbandry probiotics)	
	Volume: 5kg	
Main Features	Method of Use	

- Digestion and utilization will be increased.
- Disease occurrence will be decreased.
- Generation of metabolites is enhanced.
- It contains natural mineral, water-soluble potassium, and yucca.
- It is a microbial composite agent.
- It offers strong resistance to gastric acid.
- It helps in the subsidiary functions of water treatment microbial agents and causes environmental improvement.

Guaranteed Ingredient

Name of Ingredient		Amount of Ingredient	
Bacillus coagulans		<i>1.0 X 10⁶</i> cfu/g	
Yeast		<i>3.0 X 10⁷</i> cfu/g	

Strain: *Saccharomyces* sp. and 5 other species

(beneficial fungus, beneficial microorganism, 2 species of Lactobacillus acidophilus, and Bacillus subtilis)



All types of livestock 0.1%-0.05% (feed 500g- 1kg per ton)