

ZAMBIA HIGHLY HAZARDOUS PESTICIDES (HHPS) COUNTRY SITUATION REPORT

FEBRUARY 2019

1. INTRODUCTION

1.1. General Overview of the country and its agriculture activities

Zambia's population as at the 2010 national population census was 13,092,666 people with a growth rate of 2.8% per annum. Of this population, 66.5% were engaged in agriculture, with 96% of this farming population representing small scale farmers and 4% commercial farmers respectively.

Agriculture has been identified as the number one key driver of the economy in order to supplement the mining, which has been the largest contributor of foreign exchange earnings and national revenue. The country has vast resource endowment in terms of land, water, climate, and labor.

Zambia's total land area is 75million hectares (752,614 km²), of which 58 percent (42million hectares) is classified as medium to high potential for agricultural production, with rainfall ranging between 800mm to 1,400mm annually. A broad range of crops, fish, and livestock can be produced. Statistics show that only 14% of total agricultural land is being utilized in Zambia. An estimated 42% of the land mass is suitable for livestock production.

It is estimated that the country has about 40% of the underground and surface water resources in the Southern African Development Community (SADC) region, thereby offering huge opportunities for fish farming, livestock production and irrigated agriculture. Zambia is estimated to receive 160billion cubic meters of rainfall water annually. The country only utilizes 60 billion cubic meters, while 100 billion meters is lost. In addition, estimates suggest that the country is currently utilizing only 155,912 hectares, out of the potential 2.75 million hectares available for irrigation.

1.2. Main crops produced in the country

The main crops grown in the country are maize, sorghum, millet, rice, cassava, groundnuts, mixed beans, cowpeas, soya beans, sunflower and various vegetables. Others that are grown on large scale also wheat, cotton and tobacco.

1.3. National pesticide registration and control policy framework

A national pesticide control framework– is available in Zambia under the provisions of Environmental Management Act No.12 of 2011.

A pesticide may be registered or denied registration based on information on some of the following:

- a) Toxicity: A pesticide that is highly toxic to man and the environment in general may not be registered, especially if alternative, less-toxic pesticides exist.
- b) Persistence: It must not be very stable in the environment over a period of years (*period unspecified*).
- c) Carcinogenic or Teratogenic: It may be rejected if it is implicated that the pesticide may cause cancer or reproductive problems.
- d) Shelf life: It must have a reasonably long shelf life, preferably two (2) years.
- e) Safety Data: This must include information on treating poisons.

1.4. Authorities responsible for the registration of pesticides, role of different Ministries in Zambia.

The authority responsible for the registration of pesticides is the Zambia Environmental Management Agency (ZEMA) in accordance to the Environmental Management Act No. 12 of 2011; within the Environmental Management (Licensing Regulations 2013) under the Ministry of Water Development, Sanitation and Environmental Protection. The Agriculture and Health sectors are the main end users of pesticides and the Ministries of Agriculture and health are mandated to follow regulations regarding usage of pesticides.

1.5 International chemical conventions related with pesticides (Stockholm, Montreal Protocol, and Rotterdam) Zambia ratified and the name of the Designated National Authority (DNA) for each convention, and a focal person for SAICM.

Zambia is among the over 90 countries that signed the Stockholm Convention on Persistent Organic Pollutants (POPs) in Sweden soon after its adoption. The Designated National Authority (DNA) is the Zambia Environmental Management Agency (ZEMA) and the focal person is Mr. David Kapindula dkapindula@zema.org.zm. He is also the SAICM national focal person.

Zambia is also Party to the Rotterdam Convention and the DNA contact person is Christopher Kanema ckanema@zema.org.zm

For the Montreal Protocol, the focal person is Webby Simwayi wsimwayi@gmail.com

2. STATUS OF PESTICIDE USE IN THE COUNTRY

2.1. List of nationally registered pesticides

There are over 200 nationally registered pesticides. See attached the list in Annex 1 at the end of report.

2.2. The List of HHPs amongst list of nationally registered pesticides

Two lists, one list from the Zambia Environmental Management Agency (ZEMA) of registered pesticides in Zambia and another from the international register of HHPs, were compared. The following chemicals were found to be in use in Zambia while they were internationally banned:

1. Oxyaryl
2. Chrisat 700WDG
3. Bolt 315.4% EN
4. Carbofuran insecticide
5. Planet
6. Atrazine
7. Warrant Power
8. Kicktic
9. Terbufos

2.2.1 Active ingredients

1. Oxyaryl 3% SL
2. Methomyl 900G/KG
3. Chlorpyrifos 300G/L + Lambda Cyhalothrin
4. Carbofuran
5. Phorate 10g
6. Atrazine 50SC
7. Cyhalothrin
8. Amitrz 12.5%
9. Terbufos 15g

2.2.2 Crops using HHPs

1. Tomatoes - Oxymyl
2. Eggplants – Carbofuran insecticide
3. Garden Eggs – Carbofuran insecticide
4. Maize - Atrazine
5. Tobacco–Warrant Power
6. Cotton – Bolt 315.4% EN

2.3. General Data on the volume of use of HHPs for agriculture

There is currently no official data on the volume of HHPs used in agriculture.

2.4. The volume of use of HHPs for non-agriculture (household and public health) purposes

There is currently no official data regarding the use of HHPs for non-agriculture purposes.

2.5. List of HHPs banned in other countries but in use in Zambia

- DDT - One of the first POPs banned world-wide with few exemptions for malaria control
- Aluminum Diphosphate - Banned in Germany
- Atrazine – Banned in the EU
- Benomyl – All Dupont registrations of pesticide products that contain Benomyl were effectively cancelled on August 8, 2001 by USEPA
- Carbaryl – Banned in the EU

2.6. Human health, environmental impacts or human rights issues related with HHPs in Zambia

Anecdotal information reveals that in Zambia there have been some cases of children being exposed to HHPs through playing in contaminated environments such as crop fields. Streams of water whose water is used for human and livestock consumption are contaminated with HHPs through runoff from crop fields during rains thereby exposing the users.

Moreover, inadequate enforcement of existing laws and continued use of HHPs affect the health children and the general public-which is being discussed as a human right issue.

2.7. National provisions to phase out HHPs, ban pesticides, cancel or restrict the already registered pesticides or applied precautionary principle.

There are currently no national provisions to phase out HHPs, hence Children’s Environmental Health Foundation is conducting awareness-raising and urging the government, through the Ministry of Water Development, Sanitation and Environmental Protection (including the Ministry of Health), to speed up the creation of policy to phase out HPPs in Zambia. No applied precautionary principle is in place as well.

2.8. Companies/associations representing the pesticide industry in Zambia

2.8.1. Agrifocus

AgriFocus Zambia Limited was established in 2010. The company is an owner-run business which provides agricultural productivity solutions to both small holder farmers and large scale operators. Their business model is based on establishing long term relationships and value addition for their partners (be they customers or suppliers of goods and services). Telephone: 260-211-846-289.

2.8.2. Osho Chemicals Zambia Limited

Osho Chemical Industries Limited is a manufacturer, marketer and distributor of crop protection, animal health products, public health, industrial chemicals, farm equipment, allied products and services. Initially dealing in the supply of industrial chemicals and agricultural inputs in Kenya.

2.8.3. Syngenta

Syngenta AG, a Swiss-based global company that produces agrochemicals and seeds. It is also a biotechnology company, conducting genomic research. It was formed in 2000 by the merger of Novartis Agribusiness and Zeneca Agrochemicals.

2.8.4. Agrovet

African Agrovet Ltd, a veterinary medicine, feed supplements and agrochemical importer in the African market. African Agrovet Ltd is a veterinary medicine, feed supplements, vaccines and agrochemicals import and distribution of boluses, injectable, water soluble powders, oral suspensions, spray, ointments, intra-mammary infusions, gel, oral paste, dips, a herbal range of products and agrochemicals. They supply to farmers antibiotics, anti-helminthic, actinides, antiprotozoal, anti-inflammatory and corticosteroids, galactagogue, anti-coccidials, anti-diarrheal, health supplements, anti-stress, anti-arthritis, anti-allergic, toxin binders and growth promoters.

3. National endeavors to phase out HHPs

3.1. Projects/programs and campaigns to phase out HHPs

Projects, programs and campaigns are currently not available in Zambia, but CEHF has started initial programs and campaigns such as community mobilization and sensitization using the media, civic and traditional leadership to phase out HHPs. In awareness raising CEHF is engaging key stakeholders such as the Ministry of Agriculture, Ministry of Water Development and Environmental Protection, Ministry of Health, The Ministry of Chiefs and Traditional Affairs and the media.

3.2. Main challenges in the process of campaigning the phasing out of HHPs

The main challenge is community knowledge gaps, lack of national legislation to tackle the problem, as well as adoption and enforcement of related frameworks to phase out HHPs.

3.3. Recommendations and project ideas that support the national HHPs phase out

To enhance community sensitizations so as to reduce the knowledge gap as well as campaign to the adoption and enforcement of laws to ban HHPs.

REPORT ON ALTERNATIVES TO HHPs

1. National policy frameworks that support ecosystem approaches as alternatives to synthetic pesticides.

There is no policy framework in place to support ecosystem approaches as alternatives to synthetic pesticides.

1.1. National IPM policy framework

There is currently no national IPM policy framework in Zambia.

1.2. National organic agriculture policy framework

No policy framework yet to support organic agriculture. It is just under discussion within the Ministry of Agriculture.

1.3. Policy frameworks that support the manufacture, import, distribution and use of bio-pesticides

No existing policy framework to support bio-pesticides.

2. National implementation of crop-specific alternatives to HHPs

2.1. National IPM implementation

Cotton companies like Dunavant, Continental Ginnery and Clark Cotton Company are implementing IPM in their cotton production. There is no government initiative in this area as the cotton companies are independently handling this commodity on contracts with the farmers.

2.2. National organic agriculture implementation

Organic agriculture is being promoted by The Organic Producers and Processors Association of Zambia (OPPAZ), which was founded in 1999 by farmers who were keen to promote and expand the opportunities of organic agriculture. OPPAZ is registered as an umbrella association of organic producers and processors in Zambia that are specialized in all horticultural products, especially tomatoes. At the national level, OPPAZ is affiliated to the Zambia National Farmers Union (ZNFU), which represents the interests of all categories of farmers in Zambia. At the international level, OPPAZ is an accredited member of the International Federation of Organic Agriculture Movements (IFOAM). The broader mandate of OPPAZ is to develop and actively promote organic farming using sustainable methods of agricultural production, especially in the rural farming communities of Zambia. Other organizations promoting organic agriculture are Kasisi Training Centre, Chongwe Organic Processors and Producers (CHOPA), and Solidaridad.

2.3. Practices based on indigenous knowledge that are being used to replace HHPs

Zambia Agriculture Research Institute (ZARI) is currently working on aspects of indigenous knowledge on the control of fall army worms like the use of ash and sand by applying these in the funnels of maize plants. Beneficial worms are also used in the fields to scare the would-be invaders.

3. National/Province Initiatives in Agroecology Implementation

3.1. Organizations that support and initiate agroecological implementation in Zambia or in a province

The Ministry of Agriculture is still studying on how to go about the initiatives in agroecology implementations and there are some organizations like the Zambia Alliance for Agroecology and Biodiversity Conservation group that strongly promote agroecological implementation.

3.2. Main national challenges in the implementation of agroecology in Zambia

One of the main challenges reflected in Zambia is the promotion of Genetically Modified seeds which got strong opposition from those engaged in agroecology implementers.

3.3. Recommendations and project ideas emerging from the challenges

Our recommendations will be

- 1) Stringent government policies on agroecology Train and sensitize communities on the benefits of agroecology – formation of community groups to be champions of agroecology.

2) Conduct research and package information relevant to the regions.

List of participants in the field surveys for data collection

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ANNEX1: LIST OF NATIONALLY RGISTERED PESTICIDES IN ZAMBIA

PRODUCT LICENSED (TRADE NAME)	ACTIVE INGREDIENT	TYPE OF PESTICIDES /TOXIC SUBSTANCES	SPECIFIC USE
VEGATOP42% WS	DIFENOCONAZOLE20G/KG, THIAMETHOXAM 200G/KG AND METALAXYL- M 200G/KG	INSECTICIDE- USED AS A SEED TREATMENT	INSECTICIDE- USED ASA SEED TREATMENT
TOLLA SUPER960 EC	S- METOLACHLOR960 G/KG	HERBICIDE	CONTROLYELLOW NUTSEdge INMAIZE
TIPTOP	THIAMEHOXAM 250G/KG	HERBICIDE	ANNUALGRASSESINWHEAT
THIAMEX	THIAMEXOTHAN	INSECTICIDE	PESTCONTROLINCITRUS& MANGOES
AMSTAR250 SC	AZOXYSTROBIN250G/L SC	FUNGICIDE	CONTROL OFDISEASEIN WHEAT
TWIN75 WP	CARBENDAZIM 12%	FUNGICIDE	CONTROL OF FUNGALIN CITRUS
GLUFOSIME20 SL	GLUFOSINATEAMMONIUM 200G/L	HERBICIDE	SELECTIVECONTROL OFBROAD LEAVES
SUPATHRIN10% EC	BIFENTHRIN10% EC	INSECTICIDE	CONTROL OFLARVA/ MITES
TALICA GOLD DUST	PIRIMIPHOS - METHYL16G/KG	INSECTICIDE	CONTROL OFWHITEFLY, WEEVILS
TALICA50 %SC	PIRIMIPHOS - METHYL50G/LSC	INSECTICIDE	CONTROLINMAIZE
LOMAX 240 EC	OXYFLUORFETE240 G/LSC	HERBICIDE	CONTROL OFBROADLEAF WEEDS
ZETA - THRIN15% EC	ZETACYPERMETHRINE3.75%	INSECTICIDE	CONTROL OFBEETLES
MANCO80 WP	MANCOZEB 80% WP	FUNGICIDE	CONTROLINCITRUS
WARRIOR72 WP	METALAXYL80 G/KG	FUNGICIDE	CONTROL OFROOTDISEASES
SUPRA25 WG	THIAMETHAXAM 25% WG	INSECTICIDE	CONTROL OF SUCKING
MICOSUL75 WDG	NICOSULFORON75 WDG	HERBICIDE	INSECTICIDES CONTROL OFWEEDS
QUICK - ZALO TOP40 EC	QUICZALATOP40%G/L EC	HERBICIDE	CONTROL OFWEEDS
BENZO 1.9% EC	EMAMECTINBENZOATE1.9% EC	INSECTICIDE	CONTROL OFLARVA STAGE INSECTS
STRIKE600 EC	METHAMIDOPHOS60 G/LSC	INSECTICIDE	CONTROL OF APHIDES, SUCKING
ALPHA- QUINALPHOS 250 EC	QUINALPHOS250 G/L EC	INSECTICIDE	CONTROL OF APHIDESIN WHEAT
PRO- DUST	FENTHROTHION1.0 %	INSECTICIDE	CONTROL OFBEETLESIN GRAIN
CAMBIA 480 SC	DICAMBIA 480 SL	HERBICIDE	CONTROL OFBROAD LEAVED WEEDS
TARGET	MANCOZEB 80% WP	FUNGICIDE	USED ASA CONTACT FUNGICIDE
MIRACLE	MANCOZEB 64%+METALAXYL8% WP	FUNGICIDE	PROTECTIVEAND CORATIVE FUNGICIDE
CHAMPION	MANCOZEB 63%+CARBENDAZIM	FUNGICIDE	BROAD SPECTRUMCONTACT FUNGICIDE
DEFENDER	CHLOROTHALONIL50%SC	FUNGICIDE	NON SELECTIVE POST EMERGENCYHERBICIDE
VANISH	GLYPHOSATE480 G/LSC	HERBICIDE	SELECTIVEHERBICIDE
FUSION	ACETECHLOR900 G/LEC	HERBICIDE	PREAND EARLYPOST EMERGENCYHERBICIDE
ORBIT	CYNAZINE250 G/L+ ATRAZINE250	HERBICIDE	NON SELECTIVE POST EMERGENCYHERBICIDE

ERAZE	PARAQUAT200 G/L EC	HERBICIDE	
TATACYPER	CYPERMETHRINE20% EC	INSECTICIDE	
JAIPHOS	ALUMINIUNPHOSPHIDE56%D/W	INSECTICIDE	FUMIGANTINSECTICIDE
TATA ALPHA	ALPHACYPERMETHRINE10%EC	INSECTICIDE	
TAFGOR	DIMETHOATE40%EC	INSECTICIDE	
TAFABAN	CHLORIPYRIFOS48% EC	INSECTICIDE	
CARBOFORAN	CARBOFLURAN10%G	INSECTICIDE	SYSTEMIC GRANULE INSECTICIDE
TATAREEVA	LAMBDA CYHALOTHRIN5% EC	INSECTICIDE	BROAD SPECTRUMINSECTICIDE
MAGIC	PPVP1000 G/LEC	INSECTICIDE	
PROFENOFOS+ CYPERMETHRIN	PROFENOFOS+CYPERMETHRIN40G EC	INSECTICIDE	BROAD SPECTRUMINSECTICIDE
AMMONIUM SULPHATE	AMMONIUMSULPHATE	FERTILIZER	MAKINGSTANDARD SOLUTION
POTASSIUM SULPHATE	POTASSIUM SULPHATE	FERTILIZER	MAKINGSTANDARD SOLUTION
SODIUMBOKATE	SODIUMTETRABORATEDE CAHYDRATE	FERTILIZER	MAKINGSTANDARD SOLUTION
LIMESTONE AMMONIUM NITRATE	AMMONIAPHOSPHATE	RESIDUALNUTRITION	MAKINGSTANDARD SOLUTION
MONOAMMONIA PHOSPHATE			MAKINGSTANDARD SOLUTION
ZINC SULPHATE	ZINC SULPHATE	FERTILIZER	MAKINGSTANDARD SOLUTION
20847-66 POTASSIUM PERSULPHATE	PEROXODISULPHIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
207430-42 SODIUM HYDROXIDE	CAUSTIC SODA&SODIUMHYDROXIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
20760-26 MHYDROVANATE	SULPHURIC ACIDE,AMMONIUM HEPTATRAHYDATE&PERSULPHIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
23952-66 AMMONIUM SAHAYLATE	SODIUM SAHYLATE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
24159-51	SULPHURIC ACIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
26721-00 TOTAL NITROGEN ACID	SULPHURIC ACIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
27429-00 PHOSPHATE ACID REAGENT	SUPHURICACID	WATERTREATMENT	MAKINGSTANDARD SOLUTION
26720-46 TOTAL NITROGENB	SULPHURIC ACIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
267719-46 TOTAL NOTROGENA	SULPHURIC ACIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
DIGETION SOLUTION		WATERTREATMENT	MAKINGSTANDARD SOLUTION
SULPHURIC ACID SOLUTION	SULPHURIC ACID	WATERTREATMENT	MAKINGSTANDARD SOLUTION
FERMIC ION SOLUTION	SULPHURIC ACIDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
HYDROCHLORIC ACID	HYDROCHLORIC ACID	WATERTREATMENT	MAKINGSTANDARD SOLUTION
840 BASE	FORMADHYDE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
LIQUID CHLORINE	CHLORINE	WATERTREATMENT	MAKINGSTANDARD SOLUTION
AVI CARBO5%DP	CARBONYL	INSECTICIDE	POULTRYAGAINSTINSECTS
MO- PRAQUAT	GLYPHOSATE480 G/LSC	HERBICIDE	HERBICIDE
MO- KARATOP	LAMBDA CYHALOTHRIN5% EC	INSECTIDE	INSECTIDE
MO- DURS	CHLOROPYRIFOS	INSECTIDE	INSECTIDE
MOCRON	PREFENOFOS	INSECTIDE	INSECTIDE

TERBIFOS	TERBUFOS15G	INSECTICIDE	INSECTIDE
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STROBIGOLD	PYRACLASTROBINEPOXICONAZOLE	INSECTICIDE	FUNGICIDE
METACHLOR960 EC	METACHLOR960 G/L	INSECTICIDE	PRE EMERGENTHERBICIDE
MAIZE WEED KILLER	CYNAZINEATRAZINE	INSECTICIDE	PRE EMERGENTHERBICIDE
LEGUME WEED KILLER	IMAZETHARYR(IMIDOLINON)	INSECTICIDE	PREAND POST EMERGENT HERBICIDE
TRICHODERMA	TRICHODERMA FERTILE	INSECTICIDE	PREAND POST EMERGENT HERBICIDE
AUMIUM PHOSPHIDE	DIPROTASSION PEROZONISULPHATE/PERSULPHATE	INSECTICIDE	FUNGALINOCULANTFOR DISEASES
PROSPERTRIO	SPIROXAMINE&TEBUCONAZOLE	FUNGICIDE	CONTROLOFPOWDERY MILDEW, LEAFBLOTCH, YELLOWRUST
CALCIUM NITRATE	NITROGEN AMMONIUM	FERTILIZER	SOLI ENHANCER
MKP	PHOSPHORUS, POTTASSIUM	FERTILIZER	SOLI ENHANCER
SPRAYBOR	BORON165G/KG	FERTILIZER	SOLI ENHANCER
GRAINMAX	MANGANESE, ZINC &BORON	FERTILIZER	SOLI ENHANCER
ALEXIN	MANGNESSIUM, BORON& CALCIUM	FERTILIZER	SOLI ENHANCER
QWEMIKELP	POTTASSIUM &IRON	FERTILIZER	SOLI ENHANCER
ECOKSIL	COPPERZINC	FERTILIZER	SOLI ENHANCER
DELETE	BIFENAZATE24%SC	INSECTIDE	CONTROLOFEGG& IMMATURESTAGE OFMITE
ERASE	FENAZAQUIN200G/L	INSECTIDE	MITESINCITRUS
STING	ETOXAZOLE10%	INSECTIDE	MITESINROSES
MAPFINE	7:10:18+7S+16Ca (monoammium phosphate)	FERTILIZER	SOLI ENHANCER
MAPCOURSE	8:24:24 (MONOAMMONIUM PHOSPHATE)	FERTILIZER	SOLI ENHANCER
COMPOUND D	10:20:10	FERTILIZER	SOLI ENHANCER
MOP	MUTRIATE OFPOTASH	FERTILIZER	SOLI ENHANCER
AMMONIUM SULPHATE	AMMONIUM NITRATE	FERTILIZER	SOLI ENHANCER
UREA	7:10:18 (46%NITROGEN)	FERTILIZER	SOLI ENHANCER
YORKOOL(LLN)	DELTAMETHRIN	INSECTIDE	MALARIACONTROL
PROTREAT	IMADCLOPRID 350G/KG	INSECTIDE	INSECTICIDE SEED TREATMENT
PLANET	PHORATE10G	INSECTIDE	INSECTIDE
PROFENOFOS	PROFENOFOS50%	INSECTIDE	
E.D.B	ETHYLENEDIBROMIDE 99.5%	FUMIGANT	
ABACUS	PYRACLOSTROBIN+EPOXICONAZOLE	FUNGICIDE	
REGENT200SC	FIPRONIL200G/L	INSECTICIDE	
CECECE	CHLOMEQUATCHLORIDE750G/L		PLANTGROWTH
OSIRIS	EPOXICONAZOL, METACONAZOLE	FUNGICIDE	
ETHEPHON	ETHAPHON480G/L		PLANTGROWTH REGULATOR
FAST80WP	FOSETYL		PREVNTING AND CONTROLOF ROOTS
CARTAP500SP	CARTAP HCL		
CYROMEX 75WP	CYAROMAZINE		PLANYGROWTHINHIBITOR
DIMETHOATE400EC	DIMETHOAT400G/KG		INSECTICIDE
RAV500SC	CHLOROTHALONIL50%SC		FUNGICIDE
CPAN	AMMNIUMNITRATE	INDUSTRIALCHEMICA	
PPAN	AMMONIUM NITRATE	NDUSTRIALCHEMICAL	
FUNGURANOH	COPPERHYDROXIDE50WP	FUNGICIDE	BACTRIOLOGY
CHRYSAARCLEAR	CITRIC ACID		VASE LIFE
BIOCOMPOSIT	MICROORGANISMS, NATURAL MINERAL		BIOLOGICALACTIVATOR

	MICROORGANISM, NATURAL		
BIOSEPTIC	MINERAL		BIOLOGICALACTIVATOR
FLORAMITE240SC	BRYFENAGATE	HERBICIDE	SOLUTION
ROYALTARON	N-DECANT	HERBICIDE	CONTROLAGENTOFTOBACCO
PANTERA	QUIZALOFOP-P-TEFURYL	HERBICIDE	PEST EMERGENCY
DELEGATE250	SPINATORAM	HERBICIDE	WATERDISPERSABLE
DERBY175 SC	FLO	HERBICIDE	HERBICIDECONCENTRATION
MOLAPO	TEBUCHIRON(UREA)	HERBICIDE	GRANULARHERBICIDE
PAY PALLAS45 OP	PYROSALAM 45G/L	HERBICIDE	OILDISPERSIONHERBICIDE
PLEMUM 160 ME		HERBICIDE	SYSTEMIC HERBICIDE
MCPA400SL	MCPA(POTTASSIUM SALT	HERBICIDE	HERBICIDE
AZOFOP1004EC	HALOXYFOP-R-METHYL104 G/LEC	INSECTICIDE	ANIMALGRASSES
AFROXY250SC	AZOXYSTROBIN250 G/L	INSECTIDE	CONTROLOF FUNGAL
AFRINCO40SC	NICOSULFURON4%SC	HERBICIDE	CONTROLOFWEEDES
AFCHLOR500 WDG	CHLORIMURONETHYL50% WDG	HERBICIDE	WEED INRICE
PANDORA500 EC	PENDIMETHALINE50% EC	INSECTICIDE	ANIMALGRASSES
FIPROCA50SC	FIPRONIL5%SC	INSECTICIDE	PESTINCOTTON
AFRIZIM 500SC	CARBENDAZIM 50%SC	FUNGICIDE	FUNGAL
	FENITROTHION+DELTAMETHRIN		
GRAINPRO		INSECTICIDE	PESTINCRAI
N- PROPANOL	N-PROPANOL99.9%	INDUSTRIALCHEMICA	INDUSTRIALUSE
SODIUM CARBONATE			
	SODIUMCARBONATE	INDUSTRIALCHEMICA	INDUSTRIALUSE
SULPHURIC ACID	SULPHURIC ACID	INDUSTRIALCHEMICA	INDUSTRIALUSE
TURPOSOL17	NANANEDECANE	INDUSTRIALCHEMICA	INDUSTRIALUSE
TOLUENE	TOLUENE	INDUSTRIALCHEMICA	INDUSTRIALUSE
PERCHLOROETHYLENE	TETRACHLOROETHYLENE	INDUSTRIALCHEMICA	INDUSTRIALUSE
LONGOILALKYD	ALKYD RESIN	INDUSTRIALCHEMICA	INDUSTRIALUSE
RESIN	ALKYD RESIN	INDUSTRIALCHEMICA	INDUSTRIALUSE
HI GLOSSTHINNERS		INDUSTRIALCHEMICA	INDUSTRIALUSE
LACQUER THINNERS		INDUSTRIALCHEMICA	INDUSTRIALUSE
FLUIDAR PETROLEUM			
		INDUSTRIALCHEMICA	INDUSTRIALUSE
GREYSYLIC ACID	GREYSYLIC ACID	INDUSTRIALCHEMICA	INDUSTRIALUSE
N-BUTANOL	METHANOL	INDUSTRIALCHEMICA	INDUSTRIALUSE
NEPACIDE	OCTULISOTHIAZOLINANE	INDUSTRIALCHEMICA	INDUSTRIALUSE
MIXED DRIERLF9N	COBALT- 2-ETHYLHEXANOATE	INDUSTRIALCHEMICA	INDUSTRIALUSE
ISOPROPYLOL	PROPANE- 2- OL, ISOPYLOLALCOHOL	INDUSTRIALCHEMICA	INDUSTRIALUSE
METHYLETHYLKETONE	METHYLETHYLKETONE	INDUSTRIALCHEMICA	INDUSTRIALUSE
METHANOL	METHANOL	INDUSTRIALCHEMICA	INDUSTRIALUSE
ETHYLACETATE	ETHYLACETATE	INDUSTRIALCHEMICA	INDUSTRIALUSE
ETHANOL	ETHANOL	INDUSTRIALCHEMICA	INDUSTRIALUSE
HYDROCHLORIC ACID	HYDROCHLORIC ACID	INDUSTRIALCHEMICA	INDUSTRIALUSE
CALCIUM			
HYPOCHLORITE	CALCIUM HYPOCHLORITE	INDUSTRIALCHEMICA	INDUSTRIALUSE
AMMONIUM			
HYDROXIDE	AMMONIUM HYDROXIDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
ACETONE	PROPANE 2-1-PROPANE	INDUSTRIALCHEMICA	INDUSTRIALUSE
MEDIUMOILALKYD			
RESIN	ALKYD RESIN	INDUSTRIALCHEMICA	INDUSTRIALUSE
ACETIC ACID GLACIAL	ACETIC ACID	INDUSTRIALCHEMICA	INDUSTRIALUSE
OXYFECT	HYDROGENPEROXIDESOLUTION	INDUSTRIALCHEMICA	INDUSTRIALUSE
DURASTIC DEADLINE	FLUMETHRINE	INDUSTRIALCHEMICA	INDUSTRIALUSE
TRIASEPT	GLUTERALDEHYDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
NUITEK	GLUTALDEHYDE+ FORMALDEHYDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
DARIRICID	NITRIC ACID/PHOSPHORIC ACID	INDUSTRIALCHEMICA	INDUSTRIALUSE

MILIBITRAZ SPRAYDIP	AMITRAZ	INDUSTRIALCHEMICA	INDUSTRIALUSE
MULTIKLENE	CALCIUM HYDROXIDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
CIPALKALENE	SODIUMHYDROXIDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
SUPAKILL	BRODIFACAUM	INDUSTRIALCHEMICA	INDUSTRIALUSE
PARACIDE	ALPHAMETHRINE	INDUSTRIALCHEMICA	INDUSTRIALUSE
AMIPOR	PIPERONYLBUTOXIDE	INDUSTRIALCHEMICA	INDUSTRIALUSE
AMMONIA	AMMONIA	ALTERNATIVE REFRIGERANTGAS	REFRIGERANTGAS
RAID MAX ANT SPECIALST	IMIPROTHRINIL1.05KG/L	ANTKILLER	USED TOKILLANTS
RAID ELECTRIC	PRALLETHRIN16G/L	INSECTICIDE	MOSQUITOKILLER
LIFENET	DELTAMETHRINE	INSECTICIDE	MOSQUITOKILLER
ETHANOL	ETHYLALCOHOL	ALCOHOL	CONSUMABLEALCOHOL
POTASSIUM CHLORIDE	POTASSIUM CHLORIDE	FERTILIZER	RESIDUALNUTRITION FORSOIL
MAGNESSIUM SULPHATE	MAGNESSIUM SULPHATE	FERTILIZER	RESIDUALNUTRITION FORSOIL
UREA	UREA	FERTILIZER	RESIDUALNUTRITION FORSOIL
UREA	UREA	FERTILIZER	RESIDUALNUTRITION FORSOIL
ELFERBIOROOT	BORON165G/KG	FERTILIZER	STRENGTHENINGOF FLOWER ROOTS
AFRIBOR	BORON165G/KG	BIOFERTILIZER	FERTILIZER
AGRIZINE	CYNAZINE250G/L+ ATRAZINE	HERBICIDE	CONTROLWIDESPECTRUM BROAD LEAFWEEDS+ ANIMAL GRASSES
DURANET	ALPHACYPERMETHRINE	INSECTICIDE	MALARIACONTROL
USASYS DUAL RELEASE	SODIUMMETABISULPHITE	FUNGICIDE	POST HARVESTSTORAGE OF GRAPES
SUMILARV6.5G	PYRIPROXYLENE	INSECTICIDE	LARVICIDE FORMOSQUITOES AND FLIES
OLYSET PLUS	PERMETHRINE	INSECTICIDE	LONGLASTINGINSECTICIDE NET
SUMISHIELD 50WG	CLOTHIANIDIN	INSECTICIDE	CONTROLOFVECTOROF
MECTINPLUS3.6 EC	ABAMECTIN3.6 EC	FUNGICIDE	CONTROLOFDIAMONDBACK MOTH
DUAL POWER690WP	DIMETHOMORPH90G/KG+	FUNGICIDE	CONTROLOF FUNGALDISEASES
SANCO70% WG	MANCOZEB 600G/KGWP	HERBICIDE	PRE& POSTEMERGENCY
	METRIBUZIN70% WG		
TERMINATE4TC	CHLOROPYRIFOS480G/L TC	INSECTICIDE	CONTROLOF SUCKINGAND CHEWINGINSECTS
BOLT315.4% EN	CHLORPYRIFOS300G/L+LAMBDA CYHALOTHRIN	INSECTICIDE	CONTROLOFINSECTS
BENZO EXTRA5% WDG	FMAMECTINBENZOATE5%EC	INSECTICIDE	CONTROLOFLEPIDOPTEROUS LARVAE
ETGMACRIL25%SC	PHENAMACRIC 25%	FUNGICIDE	PREVENTING GROWTHOF THE VEGETATIVEPART OF FUNGUS
SEED GUARD WS	IMIDACHLOPRID 10%+METALAXYL	SEED DRESSER	TOCONTROLGROWTH OF THE SOILINSECTS
PROTECT25% EC	TERBUCONAZOLE25%EC	FUNGICIDE	CONTROLOFAWIDE RANGE OFDISEASESINCEREAL, OIL,
TABARD AEROSOL INSECT	N, NDIETHY-M-TOLUAMIDE	INSECTIDE	INSECT REPELLANT
TABARD LOTISIN	M, NDIETHY- M-TOLUAMIDE	INSECTICIDE	INSECT REPELLANT
EFECKTOANT	DELTAMETHRINE,PYPERONYL BUTOXIDE	INSECTICIDE	CONTROLOF ANTS

EFECKTONOROACH	DELTAMETHRINEPYROTHROID	INSECTICIDE	CONTROLOFHOUSEHOLD
EFECKTO	METALDEHYDYDE	INSECTICIDE	INSECTS
EFECKTONOINACT	DELTAMETHRINE, D-ALLETIN,		CONTROLOF SNAILS
INDOOR	PYPERONYL	INSECTICIDE	CONTROLOFHOUSEHOLD
EFECKTOANTDUST	DELTAMETHRINE,CARBANYL	INSECTICIDE	INSECTS
			CONTROLOF ANTSINHOMES
EFECKTOFRUITEBO	DELTAMETHRINE	INSECTICIDE	CONTROLOFHOUSEHOLD
BELLOZON ACID 9%	HYDROCHLORIC ACID	INDUSTRIALCHEMICA	INSECTS
SODIUM	15%M/SCHLORINE, SODIUM		CLEANINGPROCESS
HYPOCHLORITE	HYDROXIDE	INDUSTRIALCHEMICA	CLEANINGPROCESS
HIBATESE	HYDROGENCHLORIDE	INDUSTRIALCHEMICA	CLEANINGPROCESS
HYDROCHLORIC ACID	HYDROGENCHLORIDE	INDUSTRIALCHEMICA	CLEANINGPROCESS
	SULPHUR DIOXIDE&HYDROGEN		
SULPHURIC ACID	SULPHUR	INDUSTRIALCHEMICA	CLEANINGPROCESS
DITHANE	MANCOZEB 800G/KG	FUNGICIDE	PREVENTING FUNGALDISEASES
DURASBAN	CHLORPYRIFOS480G/L	INSECTICIDE	CONTROLOFPESTS
MAMBAMAX 480SL	GLYPHOSATE480 G/LSC	HERBICIDE	CONTROLOFWEEDES
			CONTROLOFBORERSIN
ONCOLSUPER220EC	BENFNACARB 200G/L	INSECTICIDE	SORGHUM
REALMOAD	TERBUCHINON	HERBICIDE	CONTROLOFWEEDES
TELONEII	1,3DICHLOROPROPANE	FUMIGANT	CONTROLOFPLANT PARASITE
			CONTROLOFINSECTSON
TRACER480SC	SPURSAD 480 G/L	INSECTICIDE	GRABEE
RAPID SHIELD	2,3,5,6TETRAFLUOROPHENYL	INSECTICIDE	CONTROLOFMOSQUITOES
BLENDED FERTILIZER	N,99,P150, K,ZN-5KG	FERTILIZER	FERTILIZER
GRANULATED SINGLE			
SUPER	90%SINGLE PHOSPHATE	FERTILIZER	FERTILIZER
MURIATE OFPOTASH	POTASSIUM CHLORIDE	FERTILIZER	FERTILIZER
ALACHLOR	ALACHLOR	HERBICIDE	WEED CONTROL
METACHLOR960 EC	METACHLOR960 G/L	HERBICIDE	WEED CONTROL
BENTAZOLE	BENTAZOLE	HERBICIDE	WEED CONTROL
JEYES FLUID	CRESYLIC CRESOTE	DISINFECTANT	CLEANINGOF FLOOR
CHLORDATE	POTASSIUM HYDROXIDE	DETERGENT	SURFACECLEANER
D-CIPACID	NITRIC ACID	DISCALER	DISEALINGEQUIPMENT
NU- KLOR	TRICHLOROISOCYANURATE	DETERGENT	CLEANING
OXIACID	PERACETIC ACID	DISINFECTANT	CLEANING
	DIMETHYBENZYLAMMONIUM		
STERIQUAT	CHLORIDE	DISINFECTANT	CLEANING
KLORSAN - L	SODIUMHYPOCHLORITE	DISINFECTANT	CLEANING
SANDENE	IODINE	DISINFECTANT	CLEANING
VIRO-EX	GLUTARALDEHYDE	DISINFECTANT	CLEANING
COPROX SUPER			
	COPROX SUPER850G/KG	FUNGICIDE	FUNGICIDE
BENETRONE	BENDIOXIDE480G/L	HERBICIDE	POST EMERGENCY HERBICIDE
VOLOXYPYR200 EC	FLUROXYPYR200G/L	HERBICIDE	HERBICIDE
CYROMAZINE75 WP	CYRAMAZINE750G/KG	INSECTICIDE	INSECTICIDE
VISION570 WG	AMICARBAZONE+MESTRIAME	HERBICIDE	POST EMERGENCY HERBICIDE
CHLORINE	CHLORINE	INDUSTRIALCHEMICA	INDUSTRIALUSE
HYDRAZINE HYDRATE	HYDRAZINE	INDUSTRIALCHEMICA	INDUSTRIALUSE
POLYACRYLAMIDE	POLYACRYLAMIDE 90%	INDUSTRIALCHEMICA	INDUSTRIALUSE
SODIUMHYDROXIDE		INDUSTRIALCHEMICA	INDUSTRIALUSE
SULPHURIC ACID	SULPHURIC ACID 20-98%	INDUSTRIALCHEMICA	INDUSTRIALUSE
TIAMETHOXAM 25% WG	TIAMETHOXAM 25% WG	HERBICIDE	CONTROLOFWEEED

ALUMINUM PHOSPHIDE	ALUMINUMPHOSPHIDE	FUMIGANT	FUMIGATION
BLAZINE	CYNAZINE250G/L	HERBICIDE	BROAD SPECTRUMWEED
TIFUNDER	IMIDACLOPRID	INSECTICIDE	
BELT	FLUTENDIAMIDE	INSECTICIDE	
SUPERTHION50 EC	MALATHION500G/L	INSECTICIDE	CONTROLOWIDE RANGE OF INSECTS
FIXTICK	CYPERMETHRINEDIP 5%EC	CATTLEDIP&SPARY	CONTROLOFTICKS, FLIES AND PROTECTION AGAINST SCREWORM INFESTATIONIN
SUPRA200EC	CYPERMETHRIN200 G/L	INSECTICIDE	CONTROLOFVARIOUSINSECTS
ETG BOREX	BORON17%	FOLIARFERTILIZER	PREVENTION AND /OR CORRECTIONOFBORON
ACETA200SL	ACETAMIPRID 20%SL	INSECTICIDE	BROAD SPECTRUMINSECTICIDE FORUSEINCASHEW /COTTON
SEED PRO	FLUOXONIL25G/L+METALAXM 12.5%	FUNGICIDE	CONTROLOFDUMPINGOFF DISEASESCAUSED BY PYTHIUM
CALLIDE17.2%SE	IMAZETHARYR70 WDG	FUNGICIDE	PROTECTANTAND SYSTEMIC FUNGICIDE FORUSEINWHEAT, BARLEY, OATS, RYESUGAR
CRISAT700 WDG	METHOMYL900 G/KG	HERBICIDE	PREAND POST EMERGENT
THOMYL90 SP	AZOXYSTROBIN20%	INSECTICIDE	HERBICIDE
TOPSTAR350 SC	DIFENOCONAZOLE12.5%SC	FUNGICIDE	CONTROLOFVARIOUSPESTS
OPTIMUS50WP	IPRODIONE50% WP	FUNGICIDE	BROAD SPECTRUM SYSTEMATIC
PROPLEX 16.9%	THIAMETHOXAM 13.9%+ ABAMECTIN	MITICIDE/INSECTICIDE	CONTROLOF ALTERNARIAIN CABBAGE, ONION, GARLIC AND
MUNIO460EC	SPIROXAMINE250G/L+ TEBUCONAZOLE	FUNGICIDE	CONTROLALLTYPESOFMITES, ARACHNID, THrips, LEAFMINERS
KICKTIC	AMITRAZ 12.5%	INSECTICIDE	SYSTEMATIC FUNGICIDE WITH PROTECTIVE,ERADICATIVE& CURATIVEEFFECTS
MOPAMILGOLD 480EC	METALAXYL- M48%	FUNGICIDE	CONTROLOFCATTLE TICK, LICE AND MANGEMITESINCATTLE
PROCURE72.2% NEEMOIL	PROPAMOCARB HCL	FUNGICIDE	CONTROLOF HEARTROT AND ROOTROT
ALUMINIUM SULPHATE	ALUMINIUM SULPHATE	INSECTICIDE	CONTROLOFVARIOUS SOIL AND FOLIAR PATHOGENS
BIFENI/T	BIFENTRIN	FUMIGANT	REPELLANT
NYGUARD IGR	NYLON/ PYRIPROXYFEN	INSECTICIDE	FUMIGATION
CONCENTRATE	CALCIUM NITRATE	FERTILIZER	USED FORCOMMERCIALPEST CONTROL
UREA	NITROGEN	FERTILIZER	CONTROLOFVARIOUSPESTS
COMPOUND D	NPK	FERTILIZER	FERTILIZER
SULPHONIC ACID	SULFURIC ACID	INDUSTRIALCHEMICA	FERTILIZER
SILES	SODIUMLAURYL/ ETHERSULPHATE	INDUSTRIALCHEMICA	DETERGENTMAKING
POLYOL	POLYMERPOLYOL	INDUSTRIALCHEMICA	COSMETIC MANUFACTURING
			FORM MATRESSMAKING

TOLUEN			POLYMETHANEFORM
DISCOCYANATE	TPULUENE-2-4 DISCOCYANATE	INDUSTRIALCHEMICA	MANUFACTURING
METHYLENECHLORIDE	METHYLENECHLORIDE	INDUSTRIALCHEMICA	PAINTMAKING
LONGOILALKYD RESIN	ALKYD RESIN	INDUSTRIALCHEMICA	PAINTMAKING
MEDIUMOILALKYD			
ALKYD RESIN	ALKYD RESIN	INDUSTRIALCHEMICA	PAINTMAKING
CITRIC ACID	CITRIC ACID	INDUSTRIALCHEMICA	FOOD &DRINK MAKING
GALLEON SC AQUATIC	PENOXSULAN, PROPYLENE, BALANCE	INDUSTRIALCHEMICA	
CAUSTIC SODA	SODIUMHYDROXIDEFLAKES	INDUSTRIALCHEMICA	
POTASSIUM NITRATE	POTASSIUM NITROGEN	FERTILIZER	AGRI FERTILIZER
	MAGNESSIUM		
MAGNESSIUM NITRATE	NITROGEN/MAGNESSIUM CHLORIDE	FERTILIZER	AGRI FERTILIZER
EASYCROP	NITROGEN, POTASSIUM, SULPHUR, IRON AND ZINC	FERTILIZER	AGRI FERTILIZER
			GENERAL PURPOSE
BITEK GPC8	GLUTARADEHYDE,PHOSPHORICACID	DISINFECTANT	DISINFECTANT
CONFIDOR	IMIDACLOPRID	INSECTICIDE	CONTROLOF APHIDS
DECISFORTE	DELTAMETHRIN	INSECTICIDE	CONTROLOFBOLLOWORM
RONSTAR	OXADIAZON	HERBICIDE	CONTROLOFWEEDS
UREA	NITROGEN46%	FERTILIZER	BROADCAST
POTASSIUM CHLORIDE	POTASSIUM AND CHLORINE	FERTILIZER	BROADCAST
	ZINC,POTASSIUM, BORON AND CYTOKININS AND BORON	FERTILIZER	
FRUITBOOST	CALCIUM AND BORON	FERTILIZER	FERTILIZER
DOXENT	MYCORRHIZAE, TRICHODERMAS	FERTILIZER	SOYABEANINOCULANT
			AID INUPTAKE OF NUTRIENTS AND WATER
BIOCULTWS	MYCORRHIZAE. TRICHODERMAS	FERTILIZER	
ARSENAL	IMAZAPUR	HERBICIDE	CONTROLOFWEEDS
BASAGRAM	BENFAZEN	HERBICIDE	CONTROLOFWEEDS
STOMP AQUA	PENDIMETHALINE50% EC	HERBICIDE	CONTROLOFWEEDS
HAMMER	IMAZETHAPYR	HERBICIDE	CONTROLOFWEEDS
INTEGRITY	KIXORTIMAZETHAPYR	HERBICIDE	CONTROLOFWEEDS
AUTHORITY	SULFENTRAZONE	HERBICIDE	CONTROLOFWEEDS
STELLAR	TOPRAMEZONE	HERBICIDE	CONTROLOFWEEDS
CATASHERYL	CATASHERYLROTAR	INDUSTRIALCHEMICA	INDUSTRIALUSE
HISTIC SOYA	BRADYRHIZOBIUM JAPONICUM	INNOCULANT	
HISTICK PEANUT	BRADYRHIZOBIUM SPARACHIS	INNOCULANT	
RHIZOFLO	BRADYRHIZOBIUM JAPONICUM	INNOCULANT	
ACETACHLOR	ACETACHLOR25G,TERBUTHLAZINE	HERBICIDE	
GLYPHOSTATE360G SL	GLYPHOSATE	HERBICIDE	
GLYPHOSTATE	GLYPHOSATE	HERBICIDE	
COPPEROXYCHLORIDE	COPPEROXYCHLORIDE860g/KgWP	FUNGICIDE	
ACETACHLOR	ACETACHLOR900g/l	HERBICIDE	
IMIDACLOPRID	IMIDACLOPRID 70%WG	INSECTICIDE	
DELITAB	DELTAMETHRIN25%	INSECTICIDE	
MCPA	MCPA40% WT	INSECTICIDE	
ETHYLENE	ETHYLENEDIBROMIDE(EAB)1800G/L	INSECTICIDE	
	ETHYLENEDIBROMIDETECHNICAL		
ETBTECH		INSECTICIDE	
OXAMYL	OXYMYL3%SL	INSECTICIDE	
PRIMA	PRIMIPHOSMETHYL50%EC	INSECTICIDE	
IMIDACELSUPER	IMIDACHLOPRID 30.5%SC	INSECTICIDE	
SULPHUR	SULPHUR 80%	INSECTICIDE	
LAMDACYHALOTHRIN	LAMDACYHALOTHRIN5% EC	INSECTICIDE	
GLYCEL	CYPERMETHRIN200EC	INSECTICIDE	
CLIQUIN	GLYPHOSATE41%SC	INSECTICIDE	

GLYPHOSPATE	GLYPHOSATE710mg/Kg	INSECTICIDE	
ATRAZINE	ATRAZINE50 SC	INSECTICIDE	
	PROTENOTOS40%+CYPERMETHRINE		
HITCEL		INSECTICIDE	
TRICEL	CHLOROPYRIFOS	INSECTICIDE	
	IMIDACLOPRID 430g/l + GAMMA		
WARRANT POWER	CYHALOTHRIN	INSECTICIDE	
GLOREEN	WTAZADRACHTIN	INSECTICIDE	
EMMA	EMAMECTINBENZOATE	INSECTICIDE	
NEPOREX 25G	CYROMAZINE	INSECTICIDE	PREVENTIONOF FLYAND MOSQUITO LAVAE DEVELOPMENT
ETHYLENEGENERATOR	ETHANOL	INDUSTRIALCHEMICA	INDUSTRIALUSE