

**THE ENVIRONMENTAL MANAGEMENT FOR
THE MANAGEMENT OF VEGETATION
REGROWTH BY CHEMICAL/MANUAL
MEANS FOR NAMPOWER SUBSTATIONS IN
CENTRAL REGIONS.**

**DOCUMENT PREPARED BY: NAMPOWER SAFETY,
HEALTH AND ENVIRONMENTAL SECTION**

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1 LIST OF TERMS, ACRONYMS AND ABBREVIATIONS

ECC	Environmental Clearance Certificate
EIA	Environmental Impact Assessment
EMA	Environmental Management Act no 7 of 2007
EMP	Environmental Management Plan
MET	Ministry of Environment and Tourism
SHEW	Safety, Health, Environment and Wellness

2 INTRODUCTION

Vegetation growth at substations pose a fire and other risks and eventually affect NamPower's efforts of ensuring continuity of power supply. The vegetation regrowth management activities can have both positive and negative impact on the environment. It is thus important that good management measures are implemented to ensure that environmental damage is minimized.

The aim of this document is to provide the necessary general guidelines in order to ensure that the management of vegetation re-growth at NamPower substation remains within the scope of the law and to ensure that environmental impacts resulting from this activity is minimized as far as possible. It is necessary to highlight that the EMP is a living document that should be periodically reviewed and updated. It must also be noted that the EMP should be read in conjunction with laws and regulations outlined in Table 1.

The scope of this EMP include all activities associated with management of vegetation re-growth at the NamPower substation listed below.

1. Poultry Substation	26. Naruchas Substation
2. Von Bach Booster 2 Substation	27. Rehoboth Substation
3. Von Bach Booster 1 Substation	28. Oanob Substation
4. Bokomo Substation	29. Klein Aub Substation
5. New Brakwater Substation	30. Blumfelde Substation
6. Van Eck Substation	31. Auas 1 Regen Station
7. Finke Substation	32. Ongeama Substation
8. Otjihase Substation	33. Auas 2 Regen Station
9. Hoffnung Substation	34. De Hoek Substation
10. Bismarck Substation	35. Omaere Substation
11. Auas Substation	36. Gobabis Substation
12. Detmomd Substation	37. Omaheke Substation
13. Okahandja Substation	38. Witvlei Substation
14. Omatako T-Off Substation	39. Osona Substation
15. Kutako Substation	40. Swakoppoort Base Substation
16. Sungate Substation	41. Swakoppoort Booster Substation
17. Seeis Substation	42. Okahandja Substation
18. Otjivero Substation	43. Bravo Substation
19. Aris Substation	44. Von Bach Base Substation
20. Leutwein Substation	Omatako Booster Substation
21. Groot Aub Station	45. Hochfeld Substation
22. Oamites Substation	46. Ombotozu Substation
23. Astra Regen Station	
24. Kuiseb 1 Regen Station	
25. Okahandja Army Base Substation	

3 OBJECTIVES OF THIS ENVIRONMENTAL MANAGEMENT PLAN (EMP)

The aim of this EMP is to detail the management actions required to implement the mitigation measures identified thereby ensuring that any vegetation management activities are carried out in a manner that takes cognisance of environmental protection and is in line with National legislation.

This EMP has the following objectives:

- Landowners and other interested and affected parties are informed of NamPower's intentions to apply herbicides in the substations.
- Vegetation is adequately managed on site.
- All waste generated during the application process is dealt with as per NamPower procedures/policies.
- Herbicide use, handling and storage is done in a manner which prevents further environmental contamination.
- Environmental contamination is prevented and/ or managed.
- Damage or destruction of fauna and non-target flora is prevented.
- Adverse impacts to the health and safety of all persons involved in herbicide application and other vegetation management methods is prevented.
- Records keeping is carried out, inclusive of any incidents.
- Regular inspections are done.
- Unintended environmental impacts are remediated.

4 POLICY AND LEGISLATIVE FRAMEWORK

Table 1 below outline the legislative requirements which are applicable to the vegetation regrowth management activities.

Legislation:	Section (s) applicable:	Implications:
Environmental Management Act no 7 of 2007	<i>Section 3</i>	<ul style="list-style-type: none">• All activities performed should be in line with the following principles:<ul style="list-style-type: none">○ Interested and affected parties should have an opportunity to participate in decision making○ Listed activities should be subject to an EIA

	<p><i>Section 27</i></p> <p><i>Section 33 onwards</i></p> <p><i>Any other applicable sections.</i></p>	<ul style="list-style-type: none"> ○ Polluter should pay for rehabilitation ○ Pollution should be minimized • Environmental assessments should be carried out for listed activities. The proposed activity can be classified under the following range of activities: <ul style="list-style-type: none"> ○ Generation of electricity ○ Transmission of electricity • These sections details the process to be followed in order to obtain a clearance certificate. • All existing listed activities must obtain a clearance certificate within one year of the law coming into effect (February 2013). Therefore, all existing activities which can be considered a listed activity should apply for clearance.
EMA Regulations GN 28-30 (GG 4878) (February 2012)	<ul style="list-style-type: none"> • Listed activity: • 5.1 • 6 – 9; 13; 15; 21-24 	<ul style="list-style-type: none"> • This activity can be considered as electricity generation and transmission. • These sections details the process to be followed in terms of producing an Environmental Assessment and this process should be adhered to during the generation of information for this document.
Labour Act no 11 of 2007	<ul style="list-style-type: none"> • Section 3 • Section 4 • Section 9 • Section 39 – 42 • Any other applicable sections 	<ul style="list-style-type: none"> • Children under the age of 16 may not be employed • Forced labour may not be used. • Basic conditions of employment as stipulated by the law must be met. • The employer shall ensure the health and safety of all employees and non-employees on site. Employees must fulfil their duties in order to ensure their own health and safety and that of other employees and persons. Employees may leave the work site if reasonable measures to protect their health are not taken.
Water Act no 54 of 1956	<ul style="list-style-type: none"> • Section 23 	<ul style="list-style-type: none"> • Any person causing pollution to a water source shall be guilty of an offence.

	<ul style="list-style-type: none"> Any other applicable sections 	
Public and Environmental Health Act no 1 of 2015	<ul style="list-style-type: none"> Section 52 Section 53 Any other applicable sections 	<ul style="list-style-type: none"> A person generating waste must ensure that the waste generated is kept and stored under conditions that causes no harm to human health or damage to the environment. Waste must only be disposed of at a waste disposal site, including an incinerator approved by the local authority concerned.
Water Resources Management Act no 24 of 2013	<ul style="list-style-type: none"> Section 89 Any other applicable sections 	<ul style="list-style-type: none"> The owner or occupier or other person in control of land where an incident that causes or is likely to cause a water resource to be polluted must take all reasonable measures to contain and minimize the effects of the incident; and to clean up polluted areas and remedy the effects of the incident.
Hazardous Substances Ordinance 14 of 1974	<ul style="list-style-type: none"> Section 27 Any other applicable sections 	<ul style="list-style-type: none"> To provide for the control of substances which may cause injury or ill-health to or death of human beings, by reason of their toxic, corrosive, irritant, strongly sensitizing or flammable nature or the generation of pressure thereby in certain circumstances; To provide for the division of such substances into groups in relation to the degree of danger; To provide for the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of such substances; and To provide for matters connected therewith.
Fertilizers, farm feeds, agricultural remedies and stock remedies Act no 36 of 1947	<ul style="list-style-type: none"> Definitions Section 7 	<ul style="list-style-type: none"> Arborocide application is defined as an agricultural remedy under this Act Only registered herbicides may be used. May only buy herbicides in a container that complies with the prescribed requirements and is sealed and labelled. Only allowed to use herbicides in the prescribed

	<ul style="list-style-type: none"> • Section 10 • Any other applicable sections 	<p>manner.</p> <ul style="list-style-type: none"> • Land owners must be notified about applications, and the following information must be supplied: <ul style="list-style-type: none"> ○ Purpose of administration ○ Registered name and number of the product • Precautions to be taken before, during and after each administration.
Nature Conservation Ordinance no 4 of 1975	<ul style="list-style-type: none"> • Section 74 • Any other applicable sections 	<ul style="list-style-type: none"> • Protected plants may not be removed or damaged without a permit.

5 ROLES AND RESPONSIBILITIES

It is the responsibility of NamPower and or contractor to ensure that all the environmental management actions are carried out effectively and timeously. It is important to note that the successful implementation of the EMP is, however dependent on clearly defined roles and responsibilities by several stakeholders. Below are the key employees with their responsibilities.

Table 2: The roles and responsibilities

Responsible person	Responsibilities
The Area Superintendent/District supervisor	<ul style="list-style-type: none"> • Is responsible for the enforcement of the EMP • To ensure that corrective actions are implemented for non-compliances. • To ensure that appropriate records and information regarding compliance with environmental requirements are maintained. • To ensure that all incidents, accidents and complaints are reported. • To ensure that incidents and accidents are investigated to prevent re-occurrence. • Shall inform the SHEW section of any intention to do vegetation management at a reasonable time prior to the intended activity to ensure that all processes can be followed • Shall communicate with all landowners in accordance to the

	<p>specifications detailed in this document</p> <ul style="list-style-type: none"> • Shall not commence with herbicide application unless all processes have been adhered to • To ensure that SHE requirements form part of all tender applications and awarded contracts • To ensure that all personnel are equipped with risk appropriate equipment and protective clothing • To ensure that the necessary resources are available to ensure that all requirements stipulated in this document can be met
Project Manager	<ul style="list-style-type: none"> • Is responsible for the enforcement of the EMP. • To ensure that SHE requirements are included in the tender documents sent to the contractors. • Must ensure that the contractor remains in compliance with the requirements of this EMP, through regular communication and monitoring.
NamPower SHEW	<ul style="list-style-type: none"> • Shall ensure that all inspection; monitoring and audit requirements are met • Communicate NamPower SHEW requirement to the contractors and NamPower employees. • Request NamPower sections and contractors to submit SHEW files prior to any activity taking place for approval. • Provides SHEW inductions to NamPower and contractor employees. • Implement monitoring and conduct audits in consultation with the Project Manager/district personnel . • Document and communicate monitoring, audit and inspection findings to project manager and area superintendent. • Communicate the final inspection report to the Project manager on contractor compliance to the EMP before the project close-off and final payment is made to the contractor.
Contractor	<ul style="list-style-type: none"> • To ensure that all tasks undertaken under the scope of work, are in accordance both with NamPower's SHEW policies and procedures as well as to the requirements of this EMP. • Shall adhere to all tender and contractual requirements • Is responsible for the implementation of the requirements stipulated in this document as well as any other requirements

	<p>stipulated in documentation related to the application of herbicides</p> <ul style="list-style-type: none"> • Ensure that employees are regularly trained and awareness built relating to environmental and social management. • To ensure that all incidents, accidents and complaints are reported to the project manager. • To ensure that incidents and accidents are investigated to prevent re-occurrence. • Ensuring that all employees receive a SHEW induction before the start of the project. • Ensuring that the work being done does not create a nuisance to any being working, residing or living on adjacent properties or within the immediate surroundings of the site.
Pest Control Officer	<ul style="list-style-type: none"> • A Pest Control Officer (PCO) shall be considered any person who have been certified as a PCO by an accredited institution and can be employed by either NamPower or a contractor • Will be responsible for supervising any herbicide application to be done at any site owned and operated by NamPower • Will be responsible for documenting the entire process on site related to the application of herbicide as per the requirements of this document • Shall ensure that the herbicide application is done in accordance to the ecological and vegetation assessments report.
Herbicide application official	<ul style="list-style-type: none"> • A herbicide application official is any person who has received training with regards to the application of herbicides and can be employed by either NamPower or a contractor • Shall adhere to all requirements related to the application of herbicides • Shall work in a responsible and accurate manner in order to ensure that environmental impacts are minimised • Shall report all incidents and / or accidents

6 DESCRIPTION OF OPERATIONAL ACTIVITIES TO BE UNDERTAKEN AND ASSOCIATED IMPACTS

The table below outlines the impacts associated with management of vegetation regrowth activities.

Table 3: Description of the activities associated impacts

Vegetation management	Selective herbicide application, mechanical and manual bush clearing	<ul style="list-style-type: none"> • Impacts on non-target vegetation • Impacts on fauna • Water pollution • Soil pollution • Human health impact • Possible employment opportunities if vegetation management activities is outsourced.
Safety, Health and Environmental monitoring	<ul style="list-style-type: none"> • Periodic environmental monitoring and audits to assess compliance to management procedures, and EMP requirements. 	<ul style="list-style-type: none"> • Littering • Air emissions from vehicle emissions • Use of natural resources (petrol/diesel)

7 MANAGEMENT AND MITIGATION MEASURES

In order to ensure that the potential impacts are eliminated and/or minimised, it is necessary to ensure that the various activities related to the management of vegetation regrowth are adequately managed and monitored. Table 4 below outline mitigation measures as well as objectives to be achieved. A responsible person (s) have been assigned to each mitigation measure (s).

Table 4: Proposed mitigation measures for the general operational activities

ASPECT	MANAGEMENT AND MITIGATION MEASURES/COMMITMENTS	RESPONSIBLE PERSON
Safety Health and Environmental (SHE) Awareness	<ul style="list-style-type: none"> • All employees should undergo SHE induction before work commences onsite. • All employees are to be made aware of their individual roles and responsibilities in achieving compliance with the EMP. • SHE toolbox talks to be conducted by the contractors/NamPower employees and records to kept onsite. • Warning signs must be placed on and around the site. 	<ul style="list-style-type: none"> • Area superintendent • Project manager • Contractor
Interaction with landowners	<ul style="list-style-type: none"> • NamPower shall take the responsibility of communicating with landowners 14 days prior to applying herbicides on site. • The following information shall be communicated to landowners and other interested and affected parties: <ul style="list-style-type: none"> • Time of application • Duration of application • Type of herbicide to be used • Reasons for application • Persons responsible for application • All conditions and requirements stated by the landowners shall be documented and adhered to by NamPower employees and contractors. • A complaint register must be available onsite to ensure that all queries and complaints are documented and dealt with. • Any person making himself guilty of violence, harassment or any other activity deemed inappropriate by the landowner, must immediately be removed from the site. • The use of intoxicating liquor or drugs of any kind by the employees is strictly prohibited. • Appropriate contact numbers shall be made available to the landowner, to ensure open channels of communication and prompt responses to any queries and claims. • All communication received from landowners shall be responded to timely. • Existing infrastructure may not be tampered with or damaged during vegetation management activities. 	<ul style="list-style-type: none"> • Area superintendent • Project manager • Contractor
Health and Safety	<ul style="list-style-type: none"> • Contractors/NamPower district personnel shall 	<ul style="list-style-type: none"> • Area

ASPECT	MANAGEMENT AND MITIGATION MEASURES/COMMITMENTS	RESPONSIBLE PERSON
	<p>submit a full SHE plan detailing all methods to protect employees from the risk of vegetation management. Adherence to this plan shall be monitored during inspections.</p> <ul style="list-style-type: none"> • A SHE plan shall be developed and adhered to for instances where NamPower is responsible for the application of herbicides. • Appropriate warning signs must be placed on the facilities. • Risk based PPE must be worn. 	<p>superintendent</p> <ul style="list-style-type: none"> • Project manager • Contractor
Air Quality	<ul style="list-style-type: none"> • Dust suppression measures shall be implemented if necessary. • Vehicle, machinery and equipment shall be maintained in good working order in order to minimise exhaust fumes. 	<ul style="list-style-type: none"> • Area superintendent • Project manager • Contractor
Waste Management	<ul style="list-style-type: none"> • Minimise the generation of waste by applying the waste hierarchy. • Station to be kept free of waste. • No burning, burying or dumping of any waste materials shall be permitted onsite. • Labelled waste bins with lids must be provided onsite for all waste streams where applicable and ensure that waste is disposed at nearest approved waste disposal site. • Ensure that waste segregation is done at source. • Hazardous waste shall be disposed of at a registered hazardous waste disposal site. • Safe disposal certificates for hazardous waste must be kept in the SHE file. • No burning of cleared vegetation shall be allowed on site. 	<ul style="list-style-type: none"> • Area superintendent • Project manager • Contractor
Wastewater management	<ul style="list-style-type: none"> • Water containing environmental pollutants shall be collected and removed from site. • No waste water runoff or uncontrolled discharges from the site shall be permitted. • Mobile toilets or septic tanks should be used in case employees are camping on site. 	<ul style="list-style-type: none"> • Project manager • Contractor • Area superintendent
Cultural resource	<ul style="list-style-type: none"> • Any chance finds must be reported to NamPower SHEW Section. • In an event of discovery of human remains or other artefacts the work shall cease. A professional archaeologist is to be consulted and carry out 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW

ASPECT	MANAGEMENT AND MITIGATION MEASURES/COMMITMENTS	RESPONSIBLE PERSON
	investigation.	<ul style="list-style-type: none"> • Contractor
Manual Vegetation Removal	<ul style="list-style-type: none"> • Obtain a permit from the Ministry of Environment, Forestry and Tourism to remove protected trees as per the Forest Act No. 12 of 2001. • No burning of bush cleared materials is allowed onsite. • Manual and vegetation removal should be done in accordance with NamPower Pesticide and Herbicide Management Procedure.. 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW • Contractor
Herbicide Use	<ul style="list-style-type: none"> • The use, handling, storage and disposal of the herbicide must be in accordance with the MSDS. • Containers must be clearly marked to indicate contents, quantities and safety requirements. • Avoid spraying herbicide during windy days/periods. See the general product requirements for herbicide used. This could affect non-target areas and species. • Herbicide should be mixed and applied as per the specific herbicide manual. • Herbicide will be handled in accordance with the requirements outlined in the NamPower Pesticide and Herbicide Management Procedure.. • Only registered herbicides may be used for the control of vegetation on site. • Appropriate herbicides shall be identified prior to the initiation of application process as detailed above. • Only registered herbicides may be used. • Appropriate equipment shall be used. • Equipment shall be cleaned after each application to prevent cross-contamination. • No herbicide shall be applied outside the substation. • Ensure that all NamPower employees or contractor responsible for the application of herbicide/pesticides have received the herbicide/pesticide applicator training and found competent. • Ensure that herbicide/pesticides are applied under the supervision of a Pest Control Operator (PCO). 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW • Contractor
Water Resources	<ul style="list-style-type: none"> • Care must be taken to ensure that pollution of water does not occur. • Herbicides shall not exceed the recommended volume and concentration of application. 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW

ASPECT	MANAGEMENT AND MITIGATION MEASURES/COMMITMENTS	RESPONSIBLE PERSON
	<ul style="list-style-type: none"> • Herbicides shall not be applied within 50 metres of a water body including boreholes etc. • Herbicides application shall be done within the period specified in the specialist reports and labelled instructions of the herbicide in question. • Naturally occurring water resources may not be used for any personal hygiene, mixing herbicides or for washing equipment used for herbicide application. • Water may only be taken from a private or government property based on an agreement between the NamPower, contractor and custodian of the water source. 	<ul style="list-style-type: none"> • Contractor
Campsite Establishment	<ul style="list-style-type: none"> • NamPower/ Contractor must sign land permission form and agreement with land owners prior to commencement of work onsite. • Adequate ablution facilities must be provided onsite in relation to the number of employees. • Ablution facilities must not be located within 100m of any river, stream channel, pan, dam or borehole • Non-employees are not allowed to reside at the campsite. • Fire extinguishers, first aid kits, assembly point, and emergency numbers must be available onsite. • Waste must managed in accordance with waste management requirements outlined in this EMP and/or contractor's SHE plan. 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW • Contractor
Site Rehabilitation	<ul style="list-style-type: none"> • An inspection must be conducted a week prior to the completion of the project. • Where environmental damage is identified or reported, rehabilitation shall be carried out. • Rehabilitation shall be done at the cost of the institution responsible for the application vegetation regrowth management. • SHEW to sign site close off once remedial corrective actions have been implemented. 	<ul style="list-style-type: none"> • Area superintendent • Project Manager • SHEW • Contractor

8 REPORTING, MONITORING AND AUDITING

The environmental monitoring and audits must be conducted in line with supporting procedures

and requirements of this plan. Monitoring and audit reports detailing the monitoring and audit results shall be prepared by the SHEW section and communicated to the Area Manager, Superintendent and Project Manager. Records of monitoring and auditing report shall be kept and will be made available during inspection and audits.

9 NON-COMPLIANCE AND CONFLICT MANAGEMENT PROCEDURES

The Area Superintendent and Contractor shall ensure that the employees and external service providers comply with the requirements outlined in this EMP. In the event of non-compliance the following recommended process shall be followed:

1. Non – compliances will be identified during inspections or audits carried out by the SHEW Section and reported to the Area manager, Superintendent and Project Manager for corrective actions.
2. Area Superintendent / Project Manager shall notify the employees about the non-compliance .
3. Corrective and preventative actions must be implemented on an agreed timeframes.
4. Follow – up inspections shall be conducted to assess whether the corrective and preventative actions were implemented effectively.

NamPower has the right to stop all contractor’s activities if it is found that a gross violation of the EMP is taking place. The contractor shall notify NamPower of the following:

- Conflicts arising with any landowner / representative.
- Any special conditions requested by a landowner / representative.

10 RECORD KEEPING

Record keeping is important for the effective functioning and implementation of an EMP. EMP documentation must be kept in both the hard copy and electronic format for safe keeping. These must include:

- Copy of the Environmental Clearance Certificate
- A copy of an EMP
- Induction records
- Audit and Inspection reports
- Date of application
- Herbicide applied

- Persons responsible for application
- Supervisor
- Type of herbicide used
- Method of application
- Time of application
- Equipment used
- Concentration of herbicide used

11 CONCLUSION

All management measures and legal requirements outlined in this EMP should be implemented in order to ensure environmental compliance by all parties undertaking the operational activities. This will ensure that potential negative impacts are identified, avoided or mitigated and positive impacts are enhanced..

12 ANNEXURES

Annexure 1: Landowner permission form

Landowner Form

Permission



Landowner name: _____ Contact number: _____

Representative name: _____

Farm name: _____

Contractor: _____

Representative name: _____ Contact number: _____

General Notice

This form is to be used prior to a contractor entering a landowner's property to commence any work related to the construction or maintenance of power-line structures and servitudes.

The form must be completed by either the landowner or his / her legal representative on the property.

Section A: Before activities commence

Activities to be undertaken on the property (completed by the contractor):

Use of water resources	
Powerline erection	
Powerline refurbishment	
Trimming of vegetation	
Use of other infrastructure (please specify)	

Camping	
Bush clearing	
Herbicide application	
Access road usage	
Rehabilitation	

Specific conditions to be MEFT on the property (as stipulated by the landowner):

Dates when access is needed:

From: _____

To: _____

Signatures (prior to entry)

Landowner/Representative

Contractor representative

Date

Date

Section B: Upon completion of work and prior to leaving the property

Remarks on compliance or misconduct (upon completion of activities):

Issues still to be resolved upon completion of activities:

Signatures (upon completion)

Landowner/Representative

Contractor representative

Date

Date

Annexure 4: pre-application consent form for herbicide/pesticide application

PRE-APPLICATION CONSENT FORM	
Name of Landowner / Representative:	
Contact Details:	
Name of Farm:	
Name of Contractor:	
Name and Details of Contact Person:	
Herbicide/pesticide to be used:	
Period of Application:	
NamPower District Supervisor:	
Contact Details:	
NamPower Installation to be Treated:	
<u>Comments from Landowner/Representative:</u>	
<u>Signed:</u>	
Landowner/ Representative:	NamPower Representative:
Date:	Date:

Annexure 5: Post application review form for herbicide/pesticide applications

POST-APPLICATION REVIEW FORM	
Name of Landowner / Representative:	
Contact Details:	
Name of Farm:	
Name of Contractor:	
Name and Details of Contact Person:	
Herbicide/pesticide to be used:	
Period of Application:	
NamPower District Supervisor:	
Contact Details:	
NamPower Installation to be Treated:	
<u>Outstanding Issues:</u>	
<u>Signed:</u>	
Landowner/ Representative:	NamPower Representative:
Date:	Date:

NAMPOWER

PROCEDURE FOR

HERBICIDE AND PESTICIDE

MANAGEMENT




NamPower

Powering the Nation and beyond

Business Unit:	NamPower
Division / Section:	All Sections
Document Name:	PR00001 HERBICIDE & PESTICIDE MANAGEMENT v3 FINAL 16-08-2017

RESPONSIBLE PERSON:

Date of NamPower Executive Committee Resolution:	18 SEPTEMBER 2017
Responsible Person (Name in Full): DF Louw (Mr)	Signature: 
Date Signed: 31/10/2017	Manager: Safety, Health, Environment and Wellness

SIGN OFF:

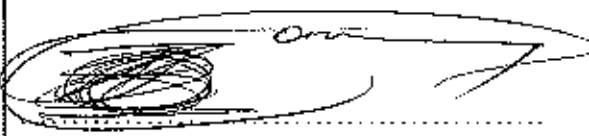

Authorised by (Name in Full): I Tjombonde (Mr)	Approved by Managing Director (Name in Full): KS Haulofu (Mr)
 Signature: Chief Officer: Corporate Services	 Signature: Managing Director
Date: 31/10/2017	Date: 03 November 2017
Review Date: Every 3 years from date of signature	Version: 3.0 Final Document 16 August 2017

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1. PURPOSE

The purpose of this document is to provide the minimum health, safety, and environmental requirements during the storage, application, and disposal of pesticides and herbicides and all related waste.

2. SCOPE

This procedure is applicable to all NamPower Employees, Consultants, Contractors or Suppliers.

3. REFERENCE DOCUMENTS

- NamPower Contractor Management Procedure on SHEW Requirements
- Contractor Management Procedure (ISO)
- NamPower Procedure for the Management of Hazardous Substances
- NamPower Procurement Procedure
- NamPower Environmental Management Plan for the Application of Herbicides at Substation
- NamPower Standards and Guidelines
- NamPower Incident/Accident Reporting Procedure
- NamPower Incident/Accident Investigation Procedure
- Road Traffic Regulations: Transportation of Dangerous Goods by Road
- Labour Act 11 of 2007
- Regulations relating to the Health and Safety of Employees at Work
- Environmental Management Act No 7 of 2007
- Environmental Impact Assessment Regulations
- Forestry Act of 2005
- Water Act no 54 of 1956
- Water Resources Management Act no 24 of 2004
- Soil Conservation Act no 76 of 1969
- Nature Conservation Ordinance no 4 of 1975

4. DEFINITIONS

- **Agricultural Remedy** – Any chemical substance or biological remedy, or any combination or mixture of any substance or remedy, intended or offered to be used for the destruction, control, repelling, attraction or prevention of any undesired microbe, algae, nematode, fungus, insect, plant, vertebrae or any part thereof.
- **Applicator** – a tool or device that is used to apply something.
- **Chemical Register** – a register of all the hazardous substances stored or used.

- **Dangerous Goods** – are solids, liquids, or gases that can harm people, other living organisms, property, or the environment.
- **Engineering controls** – controls to eliminate or reduce exposure to a chemical or physical hazard through the use or substitution of engineered machinery or equipment.
- **Environmental contamination** – is the introduction into water, air and/or soil of microorganisms, chemicals, toxic substances, wastes or waste water in a concentration that makes the medium (water, air and/or soil) unfit for its next intended use (consumption, crop production, habitation).
- **Hazardous Substances** – any flammable, toxic, harmful, corrosive or irritant substance.
- **Herbicide** – a chemical substance or cultured biological organism used to kill or suppress the growth of plants (for the purpose of this document, arborocides will also be classified as herbicide/pesticides).
- **Label** – provides information on the harmful nature of the herbicide/pesticide as well as information regarding the correct use and identification of the herbicide/pesticide in the container.
- **Material Safety Data Sheet** – is a document that contains information on the potential hazards (health, fire, reactivity and environmental) and how to work safely with the chemical product.
- **Pesticide** – a chemical substance used to kill harmful insects, small animals, wild plants, and other unwanted organisms.
- **Pest Control Operator** – A person who as, or in the course of, his/her trade occupation administers agricultural remedies for the purposes for which they are intended.
- **Precautionary approach** – an environmental management rule that states if a threat of serious or irreversible damage to the environment or human health exists, a lack of full scientific knowledge about the situation should not be allowed to delay containment or remedial steps. In other words, "prevention is better than cure."
- **Secondary containment** – is a means of surrounding one or more primary storage containers to collect any hazardous material spillage in the event of loss of integrity or container failure.

5. ABBREVIATIONS

- **ECC** – Environmental Clearance Certificate
- **EMP** – Environmental Management Plan
- **MAWF** – Ministry of Agriculture Water and Forestry
- **MET** – Ministry of Environment and Tourism

- **MME** – Ministry of Mines and Energy
- **MSDS** – Material Safety Data Sheet
- **PCO** – Pest Control Operator
- **PPE** – Personnel Protective Equipment
- **RACI** – Roles Accountable Consulted Informed
- **SHEW** – Safety, Health, Environment and Wellness

6. ROLES AND RESPONSIBILITIES

6.1. Supervisor

Supervisors shall:

- Send a request to Safety Health Environment and Wellness (SHEW) Section to confirm if an environmental clearance certificate (ECC) is available for the line.
- Ensure that SHE requirements form part of the contract between the contractor and NamPower in the event the application of herbicide/pesticide is outsourced.
- Take responsibility for the entire project and will resolve any complaints resulting from the application of herbicide/pesticides.
- Ensure that all requirements stated under this procedure are adhered to.
- Ensure that landowner consent is obtained prior to work starting on powerlines/substations and that entry and exit forms are completed after herbicide/pesticide application as per annexure 3 and 4.
- Ensure that all employees (NamPower and / or Contractor) receive induction prior to commencing with herbicide/pesticide application.
- Ensure that all NamPower employees or contractor responsible for the application of herbicide/pesticides receive the herbicide/pesticide applicator training.
- Ensure that herbicide/pesticides are applied under the supervision of a Pest Control Operator (PCO).
- Ensure that project site meetings and inspections are held.
- Shall keep a register as per Annexure 4.

6.2. SHEW Section

The SHEW section shall:

- Ensure that an Environmental Clearance Certificate (ECC) is issued for the project site prior to herbicide/pesticide application.
- Provide input on SHE plan submitted by Supervisor.
- Provide a SHEW induction for NamPower employees and contractors that will be working on site.
- Carry out monitoring, inspections and audits and submit reports in this regard to the relevant Supervisors /Line /Project Managers.
- Report incidents to the relevant authorities.
- Form part of the incident/accident investigation team.

6.3. Contractor

The contractor shall:

- Ensure that they familiarise themselves with this procedure, applicable NamPower policies, procedures and site specific Environmental Management Plan (EMP), as well as NamPower requirements related to environmental management or the protection of the health and safety of individuals.
- Ensure that all employees receive induction prior to herbicide/pesticide application.
- Ensure that employees have been issued with the correct Personal Protective Equipment/clothing (PPE).
- Ensure that herbicide/pesticide application is performed by a trained herbicide/pesticide applicator and under the supervision of a qualified PCO.

7. PROCEDURE

7.1 General considerations

- The Project Manager or Asset Owner shall invite the SHEW section to all site and project meetings related to the specific project.
- Only pesticides and herbicides approved by the Ministry of Agriculture, Water & Forestry (MAWF) shall be used by NamPower and its contractors.
- Prior to any application taking place, an assessment process shall be initiated where the risks and most appropriate herbicides/pesticides to be used are identified.
- The process for application may only commence once an ECC has been received from MET.
- The relevant Managers and Supervisors shall commit and support the plans / programmes developed to manage pests and vegetation growth at NamPower sites and shall make the resources available which are required for the implementation of the plan / programme.
- First aid procedures as stipulated in the relevant MSDS document and label shall be adhered to and care should be taken to ensure that the required first aid equipment is taken along to site.
- Any incident which occurs during the storage, handling and application of herbicide/pesticides should be reported and investigated in accordance with the NamPower Incident Reporting and Investigation Procedures.
- The following conditions with regards to application shall be done for specific sites:
 - Timing of application

- Method of application
- Type of herbicide/pesticide to be used
- Equipment to be used
- Dosage of herbicide/pesticide to be applied
- No herbicide/pesticide application shall start on site unless the landowner has given his or her approval and the following process shall be adhered to in order to get landowner consent:
 - Landowner consent for herbicide/pesticide must be obtained in writing at least 14 days prior to work starting on site.
 - The Project Manager or Supervisor is responsible for ensuring that all information is given to the landowner or representative and all requirements listed by the landowner /representative shall be included in the project specific requirements.
 - The form in Annexure 2 shall be utilised for landowner consent.
- The correct PPE shall be worn by all persons handling herbicides/pesticides and these protective measures shall be in line with the risks posed by the specific herbicide/pesticide being used on site. The following are minimum requirements to be met with regards to PPE :
 - Nitrile rubber gloves
 - Dust-mask for protection over nose and mouth
 - Safety goggles /face shield
 - Waterproof clothing
 - Gumboots
 - Bush hat
 - Any additional requirements pertaining to PPE as stipulated in the MSDS and label shall be adhered to.

7.2 Procurement

The following shall be taken into consideration in order to ensure that the most appropriate herbicide/pesticide is utilised:

- A detailed scope of work shall be drafted by the Project Manager or Asset Owner in consultation with the SHEW section, to include details of all work to be carried out on site.
- Contractor to submit a SHE plan as part of the scope of work.

- A compulsory site visit shall be done prior to the closure of the tender / request for quotation to ensure that all potential contractors understand the full scope of work and site requirements.
- For internal herbicide/pesticide application, source the recommended herbicide/pesticide.
- In the event of a contract being awarded to an external party for the application of herbicide/pesticides or pesticides, the contractor shall also be responsible for the procurement of the products.
- Refer to Annexure 5 of this document, with regards to the list of approved herbicides/pesticides.

7.3 Storage

The following shall apply with regards to the storage of herbicide/pesticides on site:

- Herbicide/pesticides shall be stored in its original labelled container in a shaded, well-ventilated area where it is not directly exposed to: water, heat, sparks and other sources of ignition, food or kitchen facilities
- Herbicide/pesticides storage shall be done in line with the requirements stated in the MSDS and labels of the specific herbicide/pesticide.
- Storage areas shall be inspected on an ad-hoc basis to ensure compliance to this procedure.
- All damaged or empty containers must be removed and be disposed of at a hazardous waste disposal site prior to completion of the project.

7.4 Transport

- All conditions stipulated in the MSDS and labels with regards to the transportation of the herbicide/pesticides shall be adhered to.
- Containers shall at all times be properly sealed and safely secured, and shall not be transported in the same area as where people are seated.

7.5 Application

- All mixing and loading of herbicide/pesticides will be carried out at a location in close proximity to the application site, where environmental contamination can be minimised or prevented.
- The product shall be mixed per applicator (knap-sack) .
- Dose requirements must be calculated before the start of the project, taking into consideration the specifications listed on the label of the product.

7.6 Disposal

- All waste generated during the process of herbicide/pesticide application shall be treated as hazardous waste.
- The following shall specifically apply to the management of herbicide/pesticide waste:
 - Empty herbicide/pesticide containers shall be triple rinsed with clean water to reduce the concentration of the chemical thus reducing risk to the environment.
 - The rinsed containers should be punctured before disposal.
 - Rinse water shall be stored in an appropriate manner to be used again for herbicide/pesticide application, but shall not be stored for a period exceeding a month.
 - The water must be stored in such a manner that contamination of the receiving environment is prevented.
 - No waste water which can be considered to be contaminated with herbicide/pesticide shall be disposed of in any formal or informal drainage or sewage system.

8. INSPECTION AND AUDITING

Monitoring shall be done in order to ensure that requirements are being adhered to and to determine whether or not the application process was a success.

9. RECORDS

The following records related to herbicide/pesticides and pesticides are maintained;

Record Title / ID	Format	Location	Retention Period	Custodian(s)
Pre-Application Consent Form	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor
Post-Application Review Form	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor
Number of incidents related to the application of herbicides and pesticides	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor

Record Title / ID	Format	Location	Retention Period	Custodian(s)
Safe disposal certificates	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor
EMP	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor
ECC	Electronic/ hardcopy	Power cloud	Indefinite	SHEW Supervisor

10. ANNEXURES

Annexure 1: RACI MATRIX

Activity	Responsible	Accountable	Consulted
	<i>Individual or function that performs the activity</i>	<i>Individual or function held accountable</i>	<i>Individual or function provides input</i>
Application for ECC	SHEW Project manager	Section Head Supervisor	MET MAWF MME
Sourcing contractors and herbicides/pesticides	Procurement Project manager	Section Head Supervisor	SHEW
Herbicides/pesticides application	Contractor Nampower employee	Section Head Supervisor Contract management team	Land owners SHEW
Inspections	SHEW Supervisor Project manager	Section Head Project manager	Site Supervisor
Incident reporting and investigation	Supervisor Project manager Contractor	Section head Contractor management team	SHEW SHE Rep

ANNEXURE 2	
Pre-Application Consent Form	
Name of Landowner / Representative:	
Contact Details:	
Name of Farm:	
Name of Contractor:	
Name and Details of Contact Person:	
Herbicide/pesticide to be used:	
Period of Application:	
NamPower District Supervisor:	
Contact Details:	
NamPower Installation to be Treated:	
<u>Comments from Landowner/Representative:</u>	
<u>Signed:</u>	
Landowner/ Representative:	NamPower Representative:
Date:	Date:

ANNEXURE 3 Post-Application Review Form	
Name of Landowner / Representative:	
Contact Details:	
Name of Farm:	
Name of Contractor:	
Name and Details of Contact Person:	
Herbicide/pesticide to be used:	
Period of Application:	
NamPower District Supervisor:	
Contact Details:	
NamPower Installation to be Treated:	
<u>Outstanding Issues:</u>	
Signed:	
Landowner/ Representative:	NamPower Representative:
Date:	Date:

ANNEXURE 4 Herbicide/Pesticide Application Process Form	
Name of Product:	
Name and contact details of supplier:	
MSDS supplied:	Yes/No
Quantity:	
Date of purchase:	
Expiry date:	
Date of application:	
Start and finish time of application:	
Location of application:	
Name of product used:	
Concentration applied and calibration information:	
Method of application:	
Supervisor name:	
Applicator name:	
<u>Comments:</u>	
<u>Signed:</u>	

Supervisor/ Line Manager:	Contractor:
Date:	Date:

Annexure 5: List of Approved Herbicides/Pesticides

ID	TRADE NAME	CHEMICAL COMPOUND GROUP	AGROCHEM TYPE	COMMON ACTIVE INGREDIENT	FORMULATION TYPE	POISON GROUP	NAMIBIAN REG. NO	REGISTRANT	Attachments
1185	Baygon Dust Mite	Carbamate	Insecticide	Propoxur	DP	II	N-AR 0008	Bayer	0
1186	Bayfidan 250 EC	Triazole	Fungicide	Triadimenol	EC	II	N-AR 0029	Bayer	0
1187	Baytan® 15 DS	Triazole	Fungicide	Triadimenol	SF	IV	N-AR 0031	Bayer	0
1188	Cupravit 85 WP	Copper Compound	Fungicide	Copper Oxychloride	WP	III	N-AR 0037	Bayer	0
1189	Curaterr 10 GR	Carbamate	Insecticide	Carbofuran	G	II	N-AR 0038	Bayer	0
1190	Curaterr 10 GR	Carbamate	Insecticide	Carbofuran	G	II	N-AR 0038	Bayer	0
1191	Curaterr 10 GR	Carbamate	Insecticide	Carbofuran	G	II	N-AR 0038	Bayer	0
1192	Folicur 250 EW	Triazole	Fungicide	Terbuconazole	FE	IV	N-AR 0045	Bayer	0
1193	Folimat 800 SL	Organophos.	Fungicide	Omethoate	E	IV	N-AR 0047	Bayer	0
1194	Folithion EC	Organophos.	Insecticide	Fenitrothion	EC	II	N-AR 0048	Bayer	0
1195	Lebaycid 500 Ec	Organophos.	Insecticide	Fenitrothion	EC	II	N-AR 0050	Bayer	0
1196	Mesuroil Snail Pellets	Carbamate	M	Methiocarb	B	IV	N-AR 0051	Bayer	0

1197	Metasystox 250 EC	Organophos.	Insecticide	Demeton-S- Methyl	EC	IB	N-AR 0052	Bayer	0
1198	Metasystox (I) 250 EC	Organophos.	Insecticide	Demeton-S- methyl	EC	1b	N-AR 0053	Bayer	0
1199	Monceren SC	Phenylurea	Fungicide	Pencycuron	EC	IV	N-AR 0054	Bayer	0
1200	Nemacur 400 EC	Organophos.	Nematicide	Fenamiphos	EC	IB	N-AR 0056	Bayer	0
1201	Tamaron®585 SL	Organophos.	Insecticide	Methamidoph os	SC	IB	N-AR 0057	Bayer	0
1202	Oftanol® 500 EC	Organophos.	Insecticide	Isofenphos	EC	IB	N-AR 0058	Bayer	0
1203	Tokuthion 960 EC	Organophos.	Insecticide	Prothiophos	EC	II	N-AR 0066	Bayer	0
1204	Unden® 200 EC	Carbamate	Insecticide	Propoxur	EC	IB	N-AR 0067	Bayer	0
1205	Ustilan® 10 GR(Ausion)	Urea Compound	Herbicide	Ethidimuron	G	IV	N-AR 0069	Bayer	0
1206	Ustilan WP	Urea Compound	Herbicide	Ethidimuron	WP	IV	N-AR 0070	Bayer	0
1207	Brush -Free	Substitued Urecl	Herbicide	Bromacil	WP	IV	N-AR 0725	Contrachern	0
1208	Target Mortein Powergard Liquid	Pyrethroid	Insecticide	d-Trans- Allethrin 75/25	AE	III	N-AR 0086	Reckitt Benckiser	0
1209	Sting®	Glycine	Herbicide	Glyphosate	EC	III	N-AR 0093	Monsanto	0

1210	Bullet	Chloroactanilide	Herbicide	Acetochlor	SC	II	N-AR 0096	Monsanto	0
1211	A-maizing	Chloroactanilide	Herbicide	Acetochlor	SC	II	N-AR 0097	Monsanto	0
1212	Guadian s	Chloroacetanilide	Herbicide	Acetochlor EC	EC	II	N-AR 0098	Monsanto	0
1213	Harness [®] EC	Chloroacetanilide	Herbicide	Acetochlor	EC	III	N-AR 0099	Monsanto	0
1214	Ratel SC	Chloroacetanilide	Herbicide	Acetochlor	EC	III	N-AR 0100	Monsanto	0
1215	Round up	Glycine	Herbicide	Glyphosate	SC	IV	N-AR 0101	Monsanto	0
1216	Stop killsb Wax Blocks	Anticoagulant	Rodenticide	Brodifacoum	RB	II	N-AR 0103	Makhiro-Agro	0
1217	Chlortosip 720 SC	guanidine	Fungicide	Chlorothalonil	SC	III	N-AR 0104	Spicam S.A.	0
1218	Kamikaze	Carbamate	Herbicide	Carbaryl	B	IV	N-AR 0106	Agro-serve t/a Effkto	0
1219	Banweed MCPA	Phenoxyacetic as potassium salt	Herbicide	MCPA acid	SC	II	N-AR 0121	Agro-serve t/a Effkto	0
1220	Basagran	benzothia-diazinone	Herbicide	Bendioxide	WS	III	N-AR 0122	Agro-serve t/a Effkto	0
1221	Basamid	Thiadiazine		Dazomet	G	IV	N-AR 0123	Agro-serve t/a Effkto	0
1222	Bexadust	Organochlorine	Insecticide	*Gamma BHC	DP	IV	N-AR 0126	Agro-serve t/a Effkto	0
1223	Chloropirifos	Organophos.	Insecticide	Chloropyrifos	EC	II	N-AR 0127	Agro-serve t/a Effkto	0

1224	Garden Ripcord	Pyrethroid	Insecticide	Cypermethrin	EC	II	N-AR 0132	Agro-serve t/a Effkto	0
1225	Garlon 4	Pyridyloxy	Herbicide	Triclopy	EC	II	N-AR 0133	Agro-serve t/a Effkto	0
1226	Karba Spray	Carbamate	Insecticide	Carbaryl	W/P	II	N-AR 0135	Agro-serve t/a Effkto	0
1227	Mala Sol	Organophos.	Insecticide	Mercaptothion	EC	IV	N-AR 0137	Agro-serve t/a Effkto	0
1228	Rosecare	Carbamate	Insecticide	Pirimicorb	EC	II	N-AR 0142	Agro-serve t/a Effkto	0
1229	Storm Rat Killer	Couman	Rodenticide	Flocoumafän	BB	II	N-AR 0152	Agro-serve t/a Effkto	0
1230	Fusilade Forte	Aryloxyphenoxyproprinate	Herbicide	Fluazifop-p-butyl	EC	II	N-AR 0185	Syngenta S.A.	0
1231	Ficam M	Carbamate	Insecticide	Bendicarb	W/P	II	N-AR 0303	Bayer/Env.Sci ente	0
1232	Nuvan profi	Organophos.	Insecticide	Dichlorvos	Agosol	II	N-AR 0315	Avima	0
1233	Terbo	Nitrile	Herbicide	Bromoxynil	SE	III	N-AR 0327	Bayer/Env.Sci ente	0
1234	Termic	Carbamate	Insecticide	Aldicarb	SC	1b	N-AR 0328	Bayer Crop Science	0
1235	Bulldock	Pyrethroid	Insecticide	Beta-Cyfluthrin	G5	IV	N-AR 0333	Bayer	0

1236	Baygon Surface Spray	Pyrethroid	Insecticide	Cyfluthrin	Aerosol	Ib	N-AR 0386	Bayer	0
1237	Bysol Plant Insecticide	Pyrethroid	Insecticide	Cyfluthrin	Aerosol	III	N-AR 0388	Bayer	0
1238	Bayleton A Fungicide	Propylenedithiocarbamide	Fungicide	Propineb	-	-	N-AR 0389	Bayer	0
1239	Reskol 64	Organophos.	Insecticide	*Fenrothion	EC	II	N-AR 0393	Bayer	0
1240	Scout 0,75 UL	Pyrethroid	Insecticide	Tratometrin	UL	II	N-AR 0401	Bayer/Env.Sci ence	0
1241	Icon 10 WP	Pyrethroid	Insecticide	Lambda-cyhalothrin	WP	III	N-AR 0402	Syngenta S.A.	0
1242	Icon 10 WP	Pyrethroid	Insecticide	Lambda-cyhalothrin	WP	III	N-AR 0402	Syngenta S.A.	0
1243	Coopex Dusting	Pyrethroid	Insecticide	Permethrin	DP	II	N-AR 0415	Bayer/Env.Sci ence	0
1244	Coopex WP	Pyrethroid	Insecticide	Coopex WP	-	III	N-AR 0416	Bayer/Env.Sci ence	0
1245	Coopex TC	Pyrethroid	Insecticide	Permethrin	EC	III	N-AR 0417	Bayer/Env.Sci ence	0
1246	Super crack down	Pyrethroid	Insecticide	Deltamethrin	SC	III	N-AR 0418	Bayer/Env.Sci ence	0
1247	Finale Liquid Conc. Rat & Mouse	Anticoagulant	Rodenticide	Difethialone	-	Ia	N-AR 0419	Bayer/Env.Sci ence	0

1248	Diazinon	Organophos.	Insecticide	Diazinon	EC	II	N-AR 0420	Bayer/Env.Sci ence	0
1249	KilleM Super Fly Bait	Carbamate	Insecticide	Methomyl	-	III	N-AR 0421	Bayer/Env.Sci ence	0
1250	K-Othrine EC 15	Deltamethrin	Insecticide	Deltamethrin	EC	III	N-AR 0422	Bayer/Env.Sci ence	0
1251	Coopermatic Fly Killer	Piperonyl Butoxide	Insecticide	Pyrethrins	Aerosol	III	N-AR 0423	Bayer/Env.Sci ence	0
1252	Finale Rat and Mouse Wax	Anticoagulant	Rodenticide	Defethialone	Bait		N-AR 0424	Bayer/Env.Sci ence	0
1253	K-O Tab	Pyrethroid	Insecticide	Deltamethrin	ST	III	N-AR 0425	Bayer/Env.Sci ence	0
1254	Mostop	Organophos.	Insecticide	Termophos	EC	III	N-AR 0426	Bayer/Env.Sci ence	0
1255	K-Othrine WP 25	Pyrethroid	Insecticide	Deltamethrin	WP	III	N-AR 0427	Bayer/Env.Sci ence	0
1256	K-Othrine WP 25	Pyrethroid	Insecticide	Deltamethrin	WP	III	N-AR 0428	Bayer/Env.Sci ence	0
1257	K-O Gard SC 10	Pyrethroid	Insecticide	Deltamethrin	SC	III	N-AR 0429	Bayer/Env.Sci ence	0
1258	FinaleRat & Mousepellets	Anticoagulant	Insecticide	Defethiatone	AB	II	N-AR 0430	Bayer/Env.Sci ence	0
1259	Terimidor 25 EC	Phenyl Pyrazole	Insecticide	Fipronil	EC	II	N-AR 0459	Bayer/Env.Sci ence	0

1260	Maxforce Gel	-		Insecticide	Hydramethylnon	-	IV	N-AR 0460	Bayer/Env.Sci ence	0
1261	Baysol Ready - to-use	Pyrethroid		Insecticide	Cyfluthrin	Aerosol	II	N-AR 0460	Bayer/Env.Sci ence	0
1262	Baythion Surface spray	Pyrethroid		Insecticide	Cyfluthrin	Aerosol	II	N-AR 0461	Bayer/Env.Sci ence	0
1263	Folthion Liquid	Organophos.		Insecticide	Fenitrothion	EC	II	N-AR 0462	Bayer/Env.Sci ence	0
1264	Folthion Liquid	Organophos.		Insecticide	Fenitrothion	EC	II	N-AR 0462	Bayer/Env.Sci ence	0
1265	Folthion Liquid	Organophos.		Insecticide	Fenitrothion	EC	II	N-AR 0462	Bayer/Env.Sci ence	0
1266	Folthion Liquid	Organophos.		Insecticide	Fenitrothion	EC	II	N-AR 0462	Bayer/Env.Sci ence	0
1267	Lebaycid liquid	Organophos.		Insecticide	Fenitrothion	EC	-	N-AR 0463	Bayer/Env.Sci ence	0
1268	Mesuro Bait Pellets	-		M	Metaithylin	-	-	N-AR 0464	Bayer/Env.Sci ence	0
1269	Metasystox R Liquid	Organophos.		Insecticide	Oxydemeton- methyl	SS	II	N-AR 0465	Bayer/Env.Sci ence	0
1270	Ridder Liquid	Isopropylamine salt		Herbicide	Glyphosate	-	IV	N-AR 0466	Bayer/Env.Sci ence	0
1271	Ridder RTU	Isopropylamine salt		Herbicide	Glyphosate	-	IV	N-AR 0467	Bayer/Env.Sci ence	0

1272	Baysol contact spray	Pyrethroid	Insecticide	Cyfluthrin	EC	III	N-AR 0468	Bayer/Env.Sci ence	0
1273	Baythion Liquid	Organophos.	Insecticide	Phoxim	EC	II	N-AR 0469	Bayer/Env.Sci ence	0
1274	Bulldock Granules	Pyrethroid	Insecticide	Beta-Cythrims	GI	IV	N-AR 0470	Bayer/Env.Sci ence	0
1275	Dipterex soluble powder	Organophos	Insecticide	Trichlorfon	SP	III	N-AR 0471	Bayer/Env.Sci ence	0
1276	Folicur 250	Triazole	Fungicide	Terbukonazole	SE	III	N-AR 0472	Bayer/Env.Sci ence	0
1277	No name Surface Spray	Pyrethroid	Insecticide	Cyfluthrin	Aerosol		N-AR 0479	SC-Johnson	0
1278	Diurex 800 SC	Substituted Urea	Herbicide	Diuren	SC	IV	N-AR 0489	Makhteshim- Agan	0
1279	Galigan 240 EC	Diphenyl Etha	Herbicide	Oxyfluorfen	EC	IV	N-AR 0490	Makhteshim- Agan	0
1280	Glyphogan 360 SL	Isopropylamine salt	Herbicide	Glyphosate	SC	IV	N-AR 0491	Makhteshim- Agan	0
1281	Linagan 50 SC	Ureumverbindung	Herbicide	Linuron	SC	III	N-AR 0492	Makhteshim- Agan	0
1282	Simanex 500 SC	Triazine	Herbicide	Simazine	SC	IV	N-AR 0493	Makhteshim- Agan	0

1283	Triflurex 480 EC	Dinitroaniline	Herbicide	Trifluralin	EC	IV	N-AR 0495	Makhteshim- Agan	0
1284	Tyilanex 500 SC	Triazine	Herbicide	Terbuthylazine	SC	III	N-AR 0496	Makhteshim- Agan	0
1285	Azinphos-200 SC	Organophos.	Insecticide	Azinphos- methyl	GB	1b	N-AR 0497	Makhteshim- Agan	0
1286	Methomex 900 SP	Carbonate	Insecticide	Methomyl	SC	1b	N-AR 0498	Makhteshim- Agan	0
1287	Pyrinex 480 EC	Organophos.	Insecticide	Chlorpyrifos	SP	II	N-AR 0499	Makhteshim- Agan	0
1288	Rimon 10 EC	Benzoylurea	Insecticide	Novaluron	EC	IV	N-AR 0501	Makhteshim- Agan	0
1289	Suprathion 200 WP	Organophos.	Insecticide	Metidation	WP	II	N-AR 0502	Makhteshim- Agan	0
1290	Bumper 250 EC	Triazole	Fungicide	Propiconazole	EC	III	N-AR 0504	Makhteshim- Agan	0
1291	Folpan 500 SC	Trihalomethylthio	Fungicide	Folpet	SC	IV	N-AR 0505	Makhteshim- Agan	0
1292	Whitefly Insecticide	Phenylether	Insecticide	Pyriproxyfen	EC	III	N-AR 0522	Agro-serve t/a Effkto	0
1293	Woodborer Insecticide	Organo-chlorine	Fungicide	**Gamma BHC	EC	III	N-AR 0523	Agro-serve t/a Effkto	0
1294	No-Weed lawn Ready-to-Use	Benzoic acid as Aminopropyl	Herbicide	Dicamba	RB	II	N-AR 0528	Agro-serve t/a Effkto	0

1295	Snapshot 2.5 G	Dinitroaniline	Herbicide	Trifluralin	LS	IV	N-AR 0529	Agro-serve t/a Effkto	0
1296	Fendoab SC	Pyrethroid	Insecticide	Alphacypreme thrin	SC	IV	N-AR 0537	Agro-serve t/a Effkto	0
1297	Malathion 50% EC	Organophos.	Insecticide	Mercaprothion	EC	III	N-AR 0543	Agro-serve t/a Effkto	0
1298	Pestmat for crawling insects	Carbamate	Insecticide	Propoxur	AE	II	N-AR 0544	Agro-serve t/a Effkto	0
1299	Insecticide Granules	Organophos.	Insecticide	Dimethoate	RB	IV	N-AR 0545	Agro-serve t/a Effkto	0
1300	Pestman For Flying Insects	Pyrethroid	Insecticide	d-phenothrin	AE	II	N-AR 0547	Agro-serve t/a Effkto	0
1301	Access 240 SL	As the potassium salt	Herbicide	Picloram	WS	IV	N-AR 0551	Dow AgroScience	0
1302	Atrazine 500 SC	Triazine	Herbicide	Atrazine	SC	II	N-AR 0552	Dow AgroScience	0
1303	Atrazine 900 WG	Triazine	Herbicide	Atrazine	WD	IV	N-AR 0553	Dow AgroScience	0
1304	Cobra 180 SL	Acid equivalent	Herbicide	Glyphosate	WG	III	N-AR 0554	Dow AgroScience	0
1305	Double Edge 525 SC	Glycine	Herbicide	Glyphosate isopropylamine salt	SC	III	N-AR 0555	Dow AgroScience	0

1306	Dursban HPH	Organophosphate	Insecticide	Chlorpyrifos	EC	II	N-AR 0556	Dow AgroScience	0
1307	Garlon 480 EC	Pyridyloxy	Herbicide	Triclopyr	EC	II	N-AR 0557	Dow AgroScience	0
1308	Mamba 360 SL	Phosphonic acid	Herbicide	Glyphosphate	SL	IV	N-AR 0558	Dow AgroScience	0
1309	Molopo 500 SC	Urea Compound	Herbicide	Tebuthiuron	SC	II	N-AR 0559	Dow AgroScience	0
1310	Wenner 7005 EC	Acetanilide	Herbicide	Acetochlor	EC	III	N-AR 0560	Dow AgroScience	0
1311	Relay 750 EC	Chloroacetanilide	Herbicide	Acetochlor	EC	III	N-AR 0561	Dow AgroScience	0
1312	Rinkhals 400 PA	Uracil	Herbicide	Bromacil	PA	IV	N-AR 0562	Dow AgroScience	0
1313	Robust 490 SC	Triazine	Herbicide	Atrazine	SC	II	N-AR 0563	Dow AgroScience	0
1314	Shauna 500 SC	Uracil	Herbicide	Bromacil	SC	II	N-AR 0564	Dow AgroScience	0
1315	Slam 100 GR	Uracil	Herbicide	Bromacil	GB	IV	N-AR 0565	Dow AgroScience	0
1316	Spike 50 GR	Urea compound	Herbicide	Tebuthiuron	GB	IV	N-AR 0566	Dow AgroScience	0
1317	Turf Weeder 457,5 SL	Benzoic acid	Herbicide	Dicamba	LS	II	N-AR 0568	Dow AgroScience	0

1318	Weed Master *S 500 SC	Triazine	Herbicide	Simazine	SC	IV	N-AR 0570	Dow AgroScience	0
1319	Railroad* 500 SC	Urea compound	Herbicide	Tebuthion	SC	II	N-AR 0571	Dow AgroScience	0
1320	Kirchhoff's Ludwig's Rose spider mite	Diphenylloxazoleline derivatives	Acaricide	Etoazole	SC	IV	N-AR 0574	Ballstraathof	0
1321	Target Mortein Instant Power & Cockroaches Killer	Pyrethroid	Insecticide	Improtherin	AE	II	N-AR 0576	Ballstraathof	0
1322	Rot 'n Spot	Dicarboxamide	Fungicide	Procyimdone	SC	IV	N-AR 0579	Ballstraathof	0
1323	Target Mortein Nest kill Cockroaches bait	Pyrethroid	Insecticide	Esbiothrin	AE	IV	N-AR 0580	Reckitt Benckiser	0
1324	Pybuthrin 44	Piperonyl Butoxide	Insecticide	Pythrins	Misting spray	II	N-AR 0583	Bayer/Env.Sci ence	0
1325	Termidor 25 EC	Phenylpyrazole	Insecticide	Fipronil	EC	II	N-AR 0583	Bayer/Env.Sci ence	0
1326	Pybuthrin 44	Piperonyl Butoxide	Insecticide	Pythrins	Misting spray	II	N-AR 0585	Bayer/Env.Sci ence	0
1327	Reskol WP	Organophos.	Insecticide	Fenitrothion	WP	III	N-AR 0586	Coopers Env.Science	0

1328	DGM Double Strength	Organophos.	Insecticide	Bromchlorphos	EC	II	N-AR 0587	Coopers Env.Science	0
1329	Cooperfos	Organophos.	Insecticide	Pirimiphos-Methyl	EC	II	N-AR 0590	Coopers Env.Science	0
1330	Reskol 64	Organophos.	Insecticide	Fenitrothion	EC	II	N-AR 0593	Bayer/Env.Science	0
1331	PCO Flushing Agent	.	Insecticide	Pyrethrins	Aerosol	III	N-AR 0594	Bayer/Env.Science	0
1332	Peripel 55	Pyrethroid	Insecticide	Permethrin	EC	III	N-AR 0595	Bayer/Env.Science	0
1333	Fungi-Rid	Triazole	Fungicide	Propiconzole	EC	III	N-AR 0596	Kombat	0
1334	Chlorpyrifos	Organophosphate	Insecticide	Chlorpyrifos	EC	II	N-AR 0597	Kombat	0
1335	Kombat Ants	Pyrethroid	Insecticide	Deltamethrin	SC	IV	N-AR 0598	Kombat	0
1336	Kombat Rust	Chloride	Fungicide	Copperoxychloride	WVP	III	N-AR 0599	Kombat	0
1337	Aphids	Organophosphate	Insecticide	Dimeethoates	EC	II	N-AR 0600	Kombat	0
1338	Crop Guard	Aldehyde	Nematicide	Furfural	EC	1b	N-AR 0622	NOVON	0
1339	Bravo 720	Phthalimide	Fungicide	Chlorothalonil	SC	III	N-AR 0623	Syngenta S.A.	0
1340	Karate EC	Pyrethriod	Insecticide	Lambda-cyhalothrin	EC	II	N-AR 0624	Syngenta S.A.	0

1341	Touch Down Forte Hi Tech	Glycine	Herbicide	Glyphosate	SC	III	N-AR 0625	Syngenta S.A.	0
1342	Methosan 500 SP	Carbamate	Insecticide	Methomyl	SP	1b	N-AR 0626	Dow Agro- serve	0
1343	Decis Forte	Pyrethroid	Insecticide	Deltamethrin	EC	II	N-AR 0627	Bayer/Env.Sci ence	0
1344	Dicarzol	Carbamate	Insecticide	Formetanate	SP	1b	N-AR 0628	Bayer/Env.Sci ence	0
1345	Deltagard Tab	Pyrethroid	Insecticide	Deltamethrin	Tablets	III	N-AR 0632	Bayer/Env.Sci ence	0
1346	Dursban* 75 WG	Organophos.	Insecticide	Chlorpyrifos	DC	III	N-AR 0633	Agro-serve t/a Effkto	0
1347	Dursban* 75 WG	Organophos.	Insecticide	Chlorpyrifos	DC	III	N-AR 0633	Agro-serve t/a Effkto	0
1348	Target Mortein Ultra	Pyrethroid	Insecticide	d-Phenothrin	AE	IV	N-AR 0636	Reckitt Benckiser	0
1349	Kombat Rats & Mice	Anticoagulant	Rodenticide	Difethialone	GB	II	N-AR 0640	Kombat	0
1350	Harvester Termite-Bait	Carbamate	Insecticide	Carbaryl	GB	IV	N-AR 0641	Kombat	0
1351	Stalk Borer-G	Carbamate	Insecticide	Carbaryl	GB	IV	N-AR 0645	Kombat	0
1352	Weevelspray Upper Class EC	Oganophosphate Pyrethroid	Insecticide	Mercaptophion Permethrin	EC	III	N-AR 0660	Degesch	0

1353	Tabaksm UL	Pyrethroid	Insecticide	Permethrin	UL	III	N-AR 0663	Degesch	0
1354	Duiker 180	Glycine	Herbicide	Glyphosate	SC	III	N-AR 0666	Volcano Agro-Science	0
1355	Browser	Pyridine Carboxylic Acid 240g/l	Herbicide	Picloram	SL	III	N-AR 0667	Volcano Agro-Science	0
1356	Bromacil 500 SC	Substituted Uracil	Herbicide	Bromacil	SL	III	N-AR 0668	Volcano Agro-Science	0
1357	Limpopo	Urea Compound	Herbicide	Tebuthiuron	SL	III	N-AR 0669	Volcano Agro-Science	0
1358	Acetechlor 900 EC	Chloroacetanilide	Herbicide	Acetochlor	SL	III	N-AR 0670	Volcano Agro-Science	0
1359	Diuron 800SC	(Substituted Urea)	Herbicide	Diuron	SL	III	N-AR 0671	Volcano Agro-Science	0
1360	Springbok	Glycine	Herbicide	Glyphosate	SL	III	N-AR 0672	Volcano Agro-Science	0
1361	Crusader	Organophosphate	Insecticide	Chlorpyrifos	EC	II	N-AR 0673	Volcano Agro-Science	0
1362	Crusader	Organophosphate	Insecticide	Chloropyrifos-methyl	EC	II	N-AR 0673	Volcano Agro-Science	0
1363	Atrazine 500 SC	Triazine	Herbicide	Atrazine	SC	II	N-AR 0674	Volcano Agro-Science	0
1364	Terbuthylazine	Triazine	Herbicide	Terbuthylazine	SC	III	N-AR 0675	Volcano Agro-Science	0

1365	Richter	Triazine	Herbicide	Hexaconzole	SC	III	N-AR 0676	Volcano Agro- Science	0
1366	Comet GR	Uracil	Herbicide	Bromacil	G	III	N-AR 0679	Volcano Agro- Science	0
1367	Carbofuran 10G	Crabamate	Insecticide	Carbofuran	G	II	N-AR 0680	Volcano Agro- Science	0
1368	Alachlor	Chloroacetamifids	Herbicide	Alachlor	EC	II	N-AR 0681	Volcano Agro- Science	0
1369	Hatchet	Imadazolinone	Herbicide	Imazapyr	S	III	N-AR 0682	Volcano Agro- Science	0
1370	Agromectin	Uracil	Insecticide	Abamectin	C	I	N-AR 0684	Volcano Agro- Science	0
1371	Laduma GR	Urea Compound	Herbicide	Bromacil	G	III	N-AR 0685	Volcano Agro- Science	0
1372	Bundu SC	Substituted Uracil	Herbicide	Bromacil	SC	II	N-AR 0686	Volcano Agro- Science	0
1373	Blattanex® Cockroach Gel	Chloro-nicotinyl	Insecticide	Imidacloprid	RB	IV	N-AR 0687	Bayer Crop Science	0
1374	Marxforce® IC	Chloro-nicotinyl	Insecticide	Imidacloprid	RB	IV	N-AR 0689	Bayer Crop Science	0
1375	K-Othrine WP 25	Pyrethroid	Insecticide	Deltamethrin	Granules	IV	N-AR 0691	Bayer/Env.Sci ence	0
1376	Agita® WG Fly Bait	Neonicotinoid	Insecticide	Thiamethoxam	WG	III	N-AR 0692	Norvatis	0

	Agita® Granular Fly Bait	Neonicotinoid	Insecticide	Thiamethoxam	WG	IV	N-AR 0693	Norvatis	0
1377									
1378	Teldor® 500 Sc	Hydroxanilide	Fungicide	Fenhexamid	SC	IV	N-AR 0705	Bayer Crop Science	0
1379	Matador® 375 EC	Triazole	Fungicide	Tebuconazole Tritadimenol	EC	II	N-AR 0706	Bayer Crop Science	0
1380	Mitraz® 76 Wp	Dimethiocarbamate Ethyl Urea	Fungicide	Propineb Cymoxanil	WP	III	N-AR 0707	Bayer Crop Science	0
1381	Limpopo 200 GG	Triazole	Herbicide	Tebuthiuron (Urea)	SC	III	N-AR 0710	Volcano Agro- Science	0
1382	Brush-Free	Substitued Ureacil	Herbicide	Bromacil	WP	IV	N-AR 0725	Contracthem	0
1383	Regent 200 SC	Phenyl Pyazole	Insecticide	Fipronil	SC	III	N-AR 0727	BASF	0
1384	Stroby WG	Strobilurin	Fungicide	Kresoxim- methyl	WG	IV	N-AR 0728	BASF	0
1385	Fentona 6	Pyethroid	Insecticide	Alpha- Cypermethrin	SC	III	N-AR 0729	BASF	0
1386	Cantus	Carboxanilide	Fungicide	Boscalid	WG	III	N-AR 0730	BASF	0
1387	Collis	Carboxanilide	Fungicide	Boscalid	SC	III	N-AR 0731	BASF	0
1388	Kumulus WG	Sulphur	Fungicide	Sulphur	WG	III	N-AR 0732	BASF	0
1389	Acrobat Mz	Cinnamic Acid derivative	Fungicide	Dimethomorph	WP	III	N-AR 0733	BASF	0

1390	Acrobat WG	Cinnamic Acid derivative	Fungicide	Dimethomorph	WG	III	N-AR 0734	BASF	0
1391	Arsenal	Imidazolinone	Herbicide	Imazopyr	SL	IV	N-AR 0735	BASF	0
1392	Chopper	Imidazolinone	Herbicide	Imazopyr	SL	IV	N-AR 0736	BASF	0
1393	Cabrio Top	Dithiocarbama	Herbicide	Metiram	SL	IV	N-AR 0737	BASF	0
1394	Polyram	Dithiocarbama	Fungicide	Metiram	WG	IV	N-AR 0738	BASF	0
1395	Avi Kayazinon EK	Organophos.	Insecticide	Diazionon Technical	EC	I	N-AR 0742	Avima	0
1396	Avi Carbo DP	Carbamate	Insecticide	Carbryl	WP	III	N-AR 0744	Avima	0
1397	Ginstal® 540 SC	Phyllurea Urea	Herbicide	Thidiazuron Diuron	SC	III	N-AR 0762	Bayer Crop Science	0
1398	Brush-Free SC	Substitued Uracil	Herbicide	Bromacil	WP	IV	N-AR 0771	Avima	0
1399	Velpak DF (IWC)	Chloro-triazine	Herbicide	Hexazinone	WC	II	N-AR 0772	Dupond de Nemours Int.S.A.	0
1400	Blattanex® All Purpose	Pyrethroid	Insecticide	Cyfluthrin	EW	II	N-AR 0774	Bayer Crop Science	0
1401	Mocap®GR	Organophos phate	Nematicide	Ethoprophos	GR	II	N-AR 0776	Bayer Crop Science	0
1402	Confidor 70 WG	Chloro-nicotinyl	Insecticide	Imidacloprid	WG	II	N-AR 0777	Bayer Crop Science	0

1403	Kill All Wedges	Anticoagulants	Rodenticid e	Brodifacoum	L	Ia	N-AR 0787	Almont Agro	0
1404	Kill All Pellets	Anticoagulants	Rodenticid e	Brodifacoum	RB	II	N-AR 0788	Almont Agro	0
1405	Kill All Liquid	Anticoagulants	Rodenticid e	Brodifacoum	WB	II	N-AR 0789	Almont Agro	0
1406	Glophosate 360	Glycine	Herbicide	Glophosate	SL	III	N-AR 0790	Tsunami Plant protection	0
1407	Endosulfan EC	Organochlorine	Insecticide	Endosulfan	EC	Ib	N-AR 0791	Tsunami Plant protection	0
1408	Deltamethrin 25 EC	Pyrethroid	Insecticide	Deltamethrin	EC	II	N-AR 0792	Tsunami Plant protection	0
1409	Agropyrifos 480 EC	Organophosphate	Insecticide	Chlorpyrifos	EC	Ib	N-AR 0793	Tsunami Plant protection	0
1410	Agroquat	Byriridyl	Herbicide	Paraquat	SL	Ib	N-AR 0795	Tsunami Plant protection	0
1411	Sipermetrien	Pyrethroid	Insecticide	Cypemethrin	EC	II	N-AR 0797	Tsunami Plant protection	0
1412	Metamidofos	Organophosphate	Insecticide	Metamidofos	SL	Ib	N-AR 0800	Tsunami Plant protection	0
1413	Rolim 700 WP	Phenylamide Dithiocarbamate	Fungicide	Metalaxyl Mancozeb	WP	III	N-AR 0801	Tsunami Plant protection	0
1414	Rolim 700 WP	Phenylamide Dithiocarbamate	Fungicide	Metalaxyl Mancozeb	WP	III	N-AR 0801	Tsunami Plant protection	0

1415	Basagran	Thiadiazine	Herbicide	Bendioxide	SL	III	N-AR 0802	BASF	0
1416	Frontier optima	Chloracetamid	Herbicide	S-Dimethenamid	EC	III	N-AR 0803	BASF	0
1417	Hunter	Pyrrone	Insecticide	Chlorphenapyr	SC	III	N-AR 0804	BASF	0
1418	Counter FC 15G	Organophosphate	Insecticide	Terbufos	WG	IIb	N-AR 0805	BASF	0
1419	Fentona 5	Pyrethroid	insecticide	Alpha-Cypermethrin	WP	III	N-AR 0806	BASF	0
1420	Focus Ultra	Cyclohexenone	Fungicide	Cycloxydim	SC	III	N-AR 0807	BASF	0
1421	Opus	Triazole	Fungicide	Epoxiconazole	SC	III	N-AR 0808	BASF	0
1422	Duett	Triazole	Fungicide	Epoxiconazole	SC	III	N-AR 0809	BASF	0
1423	Fastac SC	Pyrethroid	Insecticide	Alpha-Cypermethrin	SC	III	N-AR 0810	BASF	0
1424	Folimat 800 SL	Organophosphate	Insecticide	Omethoate	SL	IB	N-AR 0821	Volcano Agro-Science	0
1425	Kilo W5G	Glyphosate	Herbicide	Glyphosate	WG	III	N-AR 0822	Volcano Agro-Science	0
1426	Linex	Urea compound	Herbicide	Linuron	WG	III	N-AR 0829	Plaaskem	0
1427	Grab 500 EC	Organophosphate	Insecticide	Fenthion	EC	II	N-AR 0830	Plaaskem	0
1428	Citrimet	Organophosphate	Insecticide	Methamodophos	SL	IIb	N-AR 0831	Plaaskem	0
1429	Abate 500	Organophosphate	Insecticide	Temephos	EC	III	N-AR 0836	BASF	0

1430	Abate 500	Organophosphate	Insecticide	Temephos	EC	III	N-AR 0836	BASF	0
1431	Deltanex™7 UL	Organophos.	Insecticide	Deltamethrin	UL	Ib	N-AR 0839	Avima	0
1432	Deltanex™15 UL	Organophos.	Insecticide	Deltamethrin	UL	Ib	N-AR 0840	Avima	0
1433	Tokuthion 960 EC	Organophosphate	Insecticide	Prothiophos	SL	II	N-AR 0843	Volcano Agro- Science	0
1434	Tiara 500 SC	Oxyacetamide	Herbicide	Flufenacet	SC	II	N-AR 0852	Bayer Crop Science	0
1435	Nupro Aerosol	Organophosphate	Insecticide	Dichlorvos	Ae	II	N-AR 0853	Fountain Chemicals	0
1436	Folimat 800 SL	Organophosphate	Insecticide	Omethoate	SL	IB	N-AR 0854	Volcano Agro- Science	0
1437	Gaucho 350 FS	Chloro-nicotinyl	Insecticide	Imidacloprid	FS	II	N-AR 0858	Bayer Crop Science	0
1438	MBN-TB-500- SC	Urea Compound	Herbicide	Terbuthiuron	SC	III	N-AR 0860	Meat Board Namibia	0
1439	Termidor	Phenyl Pyazole	Insecticide	Fipronil	EC	III	N-AR 0872	BASF	0
1440	Goliath Gel	Phenyl Pyazole	Insecticide	Fipronil	RB	III	N-AR 0873	BASF	0
1441	Siege	Amidino hydrazone	Insecticide	Hydramethyln n	GR	III	N-AR 0874	BASF	0
1442	Storm	Anticouglant	Rodenticid e	Flocoumafen	BB	II	N-AR 0875	BASF	0

1443	Flite	Triazole	Fungicide	Triticonazole	FS	III	N-AR 0876	BASF	0
1444	Bellis	Strobilurine Carboxanilide	Fungicide	Pyraclostrobin Boscalid	WG	III	N-AR 0877	BASF	0
1445	MBN-BR-800- WP	Uracil	Herbicide	Bromacil	WP	III	N-AR 0878	Meat Board Namibia	0
1446	Avimatic	Pyrethroid	Insecticide	Pyrethrins Piper Butoxide	AE	III	N-AR 0887	Avima	0
1447	Avi-Chlorpirifos EC	Organophos.	Insecticide	Chlorpyrifos	EC	IIb	N-AR 0888	Avima	0
1448	MBN-TB-200- 99	Urea Compound	Herbicide	Terbuthiuron	GG	III	N-AR 0890	Meat Board Namibia	0
1449	EPTC Plus	Thiocarbamate Antidote	Herbicide	EPTC Dichlorimid	EC	II	N-AR 0892	Tsunami Plant protection	0
1450	Endosulfan 475 SC	Organochlorine	Insecticide	Endosulfan	SC	IB	N-AR 0893	Tsunami Plant protection	0
1451	Gastoxin® Pellets	Fumigant	Insecticide	Alminumphos phide	GE	Ia	N-AR 0895	Tsunami Plant protection	0
1452	Armadijo	Triketone Triazine	Herbicide	Sulcotrione Atrazine	SC	II	N-AR 0896	Tsunami Plant protection	0
1453	Rugby 10 ME	Organophosphate	Nematicide	Cadusafos	EW	IIb	N-AR 0901	FMC	0
1454	Sumisdex SC	Dicarboximide	Fungicide	Procymidone	SC	IV	N-AR 0904	Philagro	0
1455	Sumivit	Dicarboximide	Fungicide	Procymidone	SC	III	N-AR 0905	Philagro	0

1456	Super Guard 50 EC	Organophos phate Pyrethroid	Insecticide	Pirimiphos- methyl Permethrin	EC	II	N-AR 0907	Avima	0
1457	Super Guard Dust	Organophos phate Pyrethroid	Insecticide	Pirimiphos- methyl Permethrin	DP	IV	N-AR 0908	Avima	0
1458	Target Mortain Ultra	Pyrethroid pyrethroid	Insecticide	Imprithrin d-Phenothrin	AE	II	N-AR 0910	Reckitt Benckiser	0
1459	Makro Paraquat	Bypyridyl Paraquat	Herbicide	Makro Paraquat	SL	II	N-AR 0918	Makro-Agro	0
1460	Makro Cyper	Pyrethroid	Insecticide	Cypermethrin	EC	II	N-AR 0920	Makro-Agro	0
1461	Ant	Organophos.	Insecticide	Deltamethrin	EC	II	N-AR 0921	Avima	0
1462	Confront* 360 SL	pyradine Pyradine	Herbicide	Triclopyr Cropralid	SC	II	N-AR 0932	Dow AgroScience	0
1463	Trimbel *360 SL	Pyridyloxy	Herbicide	Triclopyr	WS	II	N-AR 0933	Dow AgroScience	0
1464	Plenum* 160 ME	pyradine Pyradine	Herbicide	Picloram Fluroxypyr	ME	II	N-AR 0934	Dow AgroScience	0
1465	Namba* Max 480 SL	Phosphonic acid Acid equivalent	Herbicide	Glyphosate Acid	SL	III	N-AR 0935	Dow AgroScience	0
1466	Brush -Free 10 GG	Substitued Urecil	Herbicide	Bromacil	WP	IV	N-AR 0939	Contrachem	0
1467	Dipel® DF	Bacterium	Insecticide	Bacillus Thuringiensis	WC	III	N-AR 0943	Philaagro	0

1468	Citrex	Medium	Insecticide	Mineral Oil	EW	III	N-AR 0945	BASF	0
1469	Abacus	Strobilurine Triazole	Insecticide	Pyraclostrobin Expoiconazole	SE	III	N-AR 0950	BASF	0
1470	Makro Rose Protector	Pyrethroid Pyrimidine Triazole	Insecticide	Bifenthrin Bupirimate propiconazole	EC	II	N-AR 0969	Makro-Agro	0
1471	Dichlorvos EC	Organophos- phate	Insecticide	Dichlorvos	EC	Ib	N-AR 0990	Universal crop Protect.	0
1472	Samba 200 EC	Formadine	Insecticide	Amtraz	EC	II	N-AR 1015	Tsunami Plant protection	0
1473	Knox Ant	Organophosphate	Insecticide	Diazinon	CS	III	N-AR 1016	Tsunami Plant protection	0
1474	Knox Flea	Organophosphate	Insecticide	Diazinon	CS	III	N-AR 1022	Tsunami Plant protection	0
1475	Alphathrin Protek	Pyrethroids	Insecticide	Alpha- Cypermethrin	SC	II	N-AR 1023	Tsunami Plant protection	0
1476	Clear Pave	Glycine	Herbicide	Glyphosate	SL	III	N-AR 1024	Tsunami Plant protection	0
1477	Clear All	Glycine	Herbicide	Glyphosate	SL	III	N-AR 1025	Tsunami Plant protection	0
1478	Cypermethrin	Pyrethroid	Insecticide	Cypermethrin	EC	II	N-AR 1026	Tsunami Plant protection	0
1479	Mycoguard	Phthalonitrile	Fungicide	Chlorothalonil	SC	III	N-AR 1027	Tsunami Plant protection	0

1480	Pure Lawn	Potassium salt	Herbicide	MCPA	SL	III	N-AR 1028	Tsunami Plant protection	0
1481	Knox Worm	Pyrethroid	Insecticide	Cypermethrin	EC	II	N-AR 1029	Tsunami Plant protection	0
1482	Knox Worm	Pyrethroid	Insecticide	Cypermethrin	EC	II	N-AR 1029	Tsunami Plant protection	0
1483	Complete 350 SC	neonicotinoid	Insecticide	Imidacloprid	SC	II	N-AR 1031	Tsunami Plant protection	0
1484	Dursban* 480 EC	Chloropyrifos	Insecticide	Chloropyrifos	EC	III	N-AR 1039	Dow AgroScience	0
1485	Tracer* 480 SC	Naturalyte	Insecticide	Spinosat	SC	III	N-AR 1040	Dow AgroScience	0
1486	GF-120 *Nf	Naturalyte	Insecticide	Spinosat	Bait	III	N-AR 1041	Dow AgroScience	0
1487	Legend 250 SC*	Quinoline	Fungicide	Quinoxifen	SC	III	N-AR 1042	Dow AgroScience	0
1488	Dithane M-45 800 WP	Dithiocarbamate	Fungicide	Moncozeb	WP	III	N-AR 1043	Dow AgroScience	0
1489	Gallant *Super	Pyridinyl oxyphenoxy	Herbicide	Haloxypop-R Methyl ester	EC	III	N-AR 1044	Dow AgroScience	0
1490	Talendo®	Chloro-triazine	Herbicide	Hexazinone	WC	II	N-AR 1050	Dupond de Nemours Int.S.A.	0

1491	IproFlo	Dicarboximide	Fungicide	Iprodione	SL	III	N-AR 1063	ICA- International	0
1492	Slash 360 SL	Glycine	Herbicide	Glyphosate	SL	III	N-AR 1087	Universal crop Protect.	0
1493	Phosdrin® 240 EC	Organophos phate	Insecticide	Mevinphos	EC	Ib	N-AR 1088	Universal crop Protect.	0
1494	Skotfel Super	Bypiridy	Herbicide	Paraquat	SL	Ib	N-AR 1097	Universal crop Protect.	0
1495	Steward®150 EC	Oxidiazine	Insecticide	Indoxacarb	EC	II	N-AR 1121	Dupond de Nemours Int.S.A.	0
1496	Capitan®250 EW	Silicone triazole	Fungicide	Flusilazole	EW	II	N-AR 1122	Dupond de Nemours Int.S.A.	0
1497	Punch® C	Silicone triazole Benzimidazole	Fungicide	Flusilazole Carbendazin	SC	II	N-AR 1123	Dupond de Nemours Int.S.A.	0
1498	Steward®	Oxidiazine	Insecticide	Indoxacarb	WG	III	N-AR 1124	Dupond de Nemours Int.S.A.	0
1499	Hyvar®X	Substituted Uracil	Herbicide	Bromacil	WP	IV	N-AR 1125	Dupond de Nemours Int.S.A.	0

1500	Punch Xtra	Silicone triazole Benzimidazole	Fungicide	Flusilazole Carbendazin	SC	II	N-AR 1126	Dupond de Nemours Int.S.A.	0
1501	Equation® Pro	Ethyl Urea Oxazolidinedione	Fungicide	Cymoxanil Famoxadone	WG	III	N-AR 1127	Dupond de Nemours Int.S.A.	0
1502	Accent®	Sulfonyl Urea	Herbicide	Nicosulfuron	WG	III	N-AR 1128	Dupond de Nemours Int.S.A.	0
1503	Curazate® Pro	Ethyl Urea Dithiocarbamate	Fungicide	Cymoxanil Mancozeb	WP	III	N-AR 1129	Dupond de Nemours Int.S.A.	0
1504	Entrust Naturalyte 800 W/P	Naturalyte	Insecticide	Spinosad	WP	III	N-AR 1130	Dow AgroScience	0
1505	Mortein Target Ball Low Odour	Pyrethroid	Insecticide	D-trans- Allethrin	AE	II	N-AR 1140	Reckitt Benckiser	0
1506	Mortein Target Ball Low Odour	Pyrethroid	Insecticide	Transfluthrin 95%	AE	III	N-AR 1141	Reckitt Benckiser	0
1507	Bungy 150 Sc	Pyrethroid	Insecticide	Deltamethrin	SC	III	N-AR 1157	Makro-Agro	0
1508	Makro Rose Protector	Pyrethroid Pyrimidine Triazole	Insecticide	Bifenthrin Bupirimate propiconazole	EC	II	N-AR 1158	Makro-Agro	0
1509	Destroyer granules	Pyrethroid	Herbicide	Terbutiuron	GG	III	N-AR 1159	Namibia Agric Distrib	0

1510	Cyterfos 500 EC	Organophosphate	Insecticide	Chloropyrifos	EC	III	N-AR 1160	Nulandis	0
1511	Wallop	Pyrethroid	Insecticide	Deltamethrin	SC	III	N-AR 1166	Painticide	0
1512	AK47	Pyrethroid	Insecticide	Lamba Cyhalothrin	WP	III	N-AR 1173	Bitrad Consulting	0
1513	Protector 400 SC	Aniline derivative	Fungicide	Pyrimethanil	SC	III	N-AR 1176	ICA-International	0
1514	Vydate® SL	Carbamate	Insecticide	Oxamyl	SL	Ia	N-AR 1182	Dupond de Nemours Int.S.A.	0
1515	Karbachick	Carbamate	Insecticide	Carbaryl	DP	III	N-AR 1186	Kombat	0
1516	Karbapet	Carbamate	Insecticide	Carbaryl	DP	III	N-AR 1187	Kombat	0
1517	Asetosafe	Acetanilide	Herbicide	Acetochlor	EC	III	N-AR 1190	Erintrade Cc t/a R.T.Chemicals	0
1518	Lambda-Cyhalothrin	Pyrethroid	Insecticide	Lambda-Cyhalothrin	EC	Ib	N-AR 1191	Erintrade Cc t/a R.T.Chemicals	0
1519	Meta 960	Chloro-acetanilide	Herbicide	Metolachlor	EC	II	N-AR 1193	Erintrade Cc t/a R.T.Chemicals	0
1520		neonicotinoid	Insecticide	Imidacloprid	FS	II	N-AR 1194	Erintrade Cc t/a R.T.Chemicals	0

1521	Erintrade Aceto 900	Chloroaceta nllide	Herbicide	Acetochlor	EC	IV	N-AR 1196	Erintrade Cc t/a R.T.Chemicals	0
1522	Grain Guard	Orgaphosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1199	Avima	0
1523	Grain Guard	Orgaphosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1199	Avima	0
1524	Grain Guard	Orgaphosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1199	Avima	0
1525	Cyperin	Pyrethroid	Insecticide	Cypermerthrin	EC	II	N-AR 1201	Plaaskem	0
1526	Divos 1000 EC	Organophosphate	Insecticide	Dichlorovos	EC	Ib	N-AR 1204	Plaaskem	0
1527	Flies	Pyrethroid	Insecticide	Alpha- Cypermethrin	SC	IV	N-AR 1207	Kombat	0
1528	Mosquito Free	Pyrethroid	Insecticide	Alpha- Cypermethrin	SC	IV	N-AR 1208	Kombat	0
1529	Fungi Free	Phthalimide	Fungicide	Chlorothalonil	SC	III	N-AR 1209	Kombat	0
1530	Roach Free	Pyrethroid	Insecticide	Lambda- cyhalothrin	SC	III	N-AR 1210	Kombat	0
1531	Ant Free	Pyrethroid	Insecticide	Lambda- cyhalothrin	SC	III	N-AR 1211	Kombat	0
1532	Active Insecticide Dusting Powder	Pyrethroid	Insecticide	Permethrin pipenyl Butoxide	DP	III	N-AR 1212	WFECC Marketing Internal	0

1533	Active Rat & Mouse Wax Blocks	Anticoagulant	Rodenticid ^e	Brodifacoum	B	II	N-AR 1213	WEFCO Marketing Internal	0
1534	Active Fly Bait	Carbamate	Insecticide	Methomyl (2)-9-Tricosene	B	III	N-AR 1214	WEFCO Marketing Internal	0
1535	Active Liquid Bait 0.75	Anticoagulant	Rodenticid ^e	Brodifacoum	LB	II	N-AR 1216	WEFCO Marketing Internal	0
1536	Active Rat & Mouse Pellets	Anticoagulant	Rodenticid ^e	Brodifacoum	Pellets	II	N-AR 1217	WEFCO Marketing Internal	0
1537	Active Dual Purpose Insect Killer	Pyrethroid Pyrethroid Pyrethroid Synergist	Insecticide	D-Phenothrin D-Transallethrin D-Tetramethrin Piperonyl-Butoxide	Aerosol	III	N-AR 1218	WEFCO Marketing Internal	0
1538	Active Delta 7 W/P	Pyrethroid Synergist	Insecticide	Deltamethrin Pyperonyl-Butoxide	W/P	III	N-AR 1219	WEFCO Marketing Internal	0
1539	Active Crawling Insect Killer	Pyrethroid Pyrethroid Pyrethroid Synergist	Insecticide	Cypermethrin Prallethrin Piperonyl-Butoxide	Aerosol	II	N-AR 1220	WEFCO Marketing Internal	0

1540	Active Ant Spray	Pyrethroid Pyrethroid Pyrethroid Synergist	Insecticide	Permethrin Prallethrin Piperonyl- Butoxide	EC	II	N-AR 1221	WEFCO Marketing Internal	0
1541	Active Metered Aerosol	Pyrethroid Pyrethroid Pyrethroid Synergist	Insecticide	Permethrin Prallethrin Piperonyl- Butoxide	Aerosol	II	N-AR 1222	WEFCO Marketing Internal	0
1542	Dacthal *750 W/P	Benzoic Acid	Herbicide	Chlorothal Dimethyl	WP	III	N-AR 1229	Universal crop Protect.	0
1543	Sure Death	Organophosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1232	Kombat	0
1544	Grain Treat	Organophosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1233	Kombat	0
1545	Ant Dust	Organophosphate Pyrethroid	Insecticide	Mercaptothion Permethrin	DP	III	N-AR 1234	Kombat	0
1546	Sumipleo	Pyrethroid	Insecticide	Pyridalyl Dichloroprope ne dervative	EC	III	N-AR 1236	Philagro	0
1547	Smite	Diphenylloxazoline Derivative	Insecticide	Etazazole	SC	III	N-AR 1238	Philagro	0
1548	CTX 108	Pyrethroid Organosulphur	Insecticide	Cypermethrin TCMTB	SL	II	N-AR 1249	Starplex	0
1549	Supranex 600 SC	Triazine	Herbicide	Atrazine	SC	II	N-AR 0494	Makhteshim- Agan	0

