

	INSTRUCTION	KZN OU
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Date: 21/06/2019

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1. INTRODUCTION

The document below lists the herbicides commonly available that are possibly used at present, by Eskom personnel in the field. From those listed, there are effectively only a few types that have acceptable environmental indices and are therefore recommended for use in the construction and maintenance of Eskom's substations in KZN OU.

Some of the environmental and health risks associated with herbicides include:

- (a) health risks to nearby communities and workers (herbicide applicators):
- (b) contamination of drinking water or food supply (fruit trees)
- (c) skin or eye contact
- (d) ingestion, through mouth in food, water or hands
- (e) use of discarded herbicide bottles/containers by locals without knowing the dangers
- (f) Damage to the environment/ecosystem (plants and animals) through:
 - Overspray onto non-target plants/animals
 - Seepage into soil
 - Contamination of water bodies (stream)

2. SUPPORTING CLAUSES

2.1 SCOPE

The document below lists the herbicides commonly available that are possibly used at present, by Eskom personnel in the field. Contamination of water bodies (stream)

Although it is envisaged that more frequent applications of herbicides will have to be made to control alien vegetation in KZN, this standard is necessary to minimise long-term ecological damage to the natural environment, and reduce the concomitant legal, financial and publicity risks associated with environmental damage.

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2.1.1 PURPOSE**2.1.2 APPLICABILITY**

This procedure is applicable throughout Eskom, Distribution, KZN OU.

2.1.3 EFFECTIVE DATE

01 July 2019

2.2 NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

List the references under the following paragraphs.

2.2.1 NORMATIVE*[1] National*

- Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, No 36 of 1947

[2] Eskom National

- 32-727, Safety, Health, Environment and Quality (SHEQ) Policy.
- 240-125477962, Herbicide Usage in Eskom Prohibited and Restricted Areas, Live Chambers, Telecommunication Infrastructure Yards and Security Fences.
- 240-52456757, Contract Specification for Vegetation Management Services on Eskom Networks
- 240-133087117, Eskom's Environmental Incident Management Procedure

[3] Eskom Distribution

- 240-101641132, KZN OU Environmental Management System Procedure In Accordance With SANS/ISO14001

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2.3 ABBREVIATIONS

Abbreviation	Explanation
KZN OU	KwaZulu Natal Operating Unit
MSDS	Material Safety Data Sheet

3. DETERMINING THE CORRECT HERBICIDE TO USE

Your first responsibility

Ensure that there will be no effect on plants outside the treated area - either immediately or in the future

STEP 1: Answer the following questions

		YES	NO
1. SUBSTATIONS	Does it have a drainage system?		
2. HV-YARD	On sloping ground?		
3. SECURITY	Or sandy soils?		
FENCES	Any adjacent crops, forestry, grazing?		

STEP 2: Choose your herbicide from these lists

If you answered "yes" to ANY question you have a potentially dangerous situation and may ONLY use the following herbicides:

FOR EXISTING WEEDS	TO PREVENT WEED INFESTATION (control period up to 1 season)
Roundup Muster	<u>GRANULAR (DRY)</u> Outpace 100GR

If all answers are "no" you may use any of the herbicides in the LEFT BLOCK, plus the following:

GRANULAR (DRY)	LIQUID SPRAY APPLICATION
Atlacide Bromacil 10GR Slam! GR	Amicide Arsenal Bacprop S

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Sting Tumbleweed Mamba Cobra	<u>LIQUID</u> Outpace Flowable Simatop Weed Master S
<u>EXISTING WEED</u> Outpace Super	<u>& WEED PREVENTION</u> or Edge

Hydi G Orbit Spike 5G	Triacide "S" Tricate "S" Railroad SC
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STEP 3: Apply herbicide taking into consideration all safety and health requirements

N.B. TO REDUCE ENVIRONMENTAL HAZARDS SUCH AS DUST, EROSION, and FIRE ETC., APPLY Vegetation Management (Species Switch) USING Outpace Super or Edge SC inside:

- grassed security fences
- properties between HV-yard and security fences
- other grassed areas

FOR ANY HERBICIDES NOT LISTED, CONTACT YOUR ENVIRONMENTAL REPRESENTATIVE

4. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)

- 4.1 Keep a Herbicide Register of all herbicides purchased, used and disposed-off, with relevant dates.
- 4.2 The Material Safety Data Sheet (MSDS) for the herbicide used must be available and complied with.
- 4.3 ONLY purchase and use herbicides registered for used by the South African Department of Agriculture and Forestry.
- 4.4 Herbicides MUST be applied as per the specific instructions on the label, e.g. for the mixing ratios.
- 4.5 All herbicides to be kept under lock and key.

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- 4.6 The purchase, use and storage of herbicides must comply with the *Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act*, No 36 of 1947. In terms of this Act:
- (a) a commercial applicator, e.g. contractor must be registered as a Pest Control Operator (PCO), with the relevant PCO license and training;
 - (b) All those applying herbicides must undergo the Eskom basic training on the safe usage, storage and disposal of herbicides;
 - (c) All used or empty herbicide containers (bottles) must be disposed of as hazardous waste in the appropriate landfill site; such containers are not to be left in the field or given to local community members, or thrown in the general waste facility; KZN OU's waste disposal service provider to be used for this disposal.
- 4.7 All incidents relating to herbicide usage, e.g. contamination of water or land, overspray onto crops, land-owner complaints, etc. must be reporting within Eskom in terms of Eskom's Environmental Incident Management Procedure.
- 4.8 Comply with all other relevant and applicable legislation, provincial ordinances and municipal by-laws.
- 4.9. Comply with all Eskom policies, procedures, standards and guidelines on herbicide usage.

5. ACCEPTANCE

This document has been seen and accepted by:

Name	Designation
Nosipho Mpanza	Operations and Maintenance Manager
Lenny Babulall	SHEQS Manager
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6. REVISIONS

Date	Rev.	Compiler	Remarks
11/06/2019	5	Whitney Gabriel	Change in details of compiler, Change of Functional Responsibility and Authorised by Section 5: EMPR
20/11/2013	A	Troy Govender	New template + Unique identifier 5. Other Requirements
18/01/2011	2	Troy Govender	1. Approved and Authorised by 2. Replace 2.Eskom Policy on Herbicide Management , ESKPBAAD4 3. Eskom Standard on the Safe Use of Pesticides and Herbicides , ESKASAAL0. With 2. Other relevant and applicable legislation, provincial ordinances and municipal by-laws; 3. all Eskom policies, procedures, standards and guidelines on herbicide usage.

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Date	Rev.	Compiler	Remarks
			3. Deleted:
			RECOMMENDED HERBICIDES FOR THE USE IN ESKOM SUBSTATIONS AND SECURITY FENCES
			THIS POSTER MUST BE USED TOGETHER WITH THE HERBICIDE GUIDELINES Read the herbicide guidelines and Eskom's corporate strategy on herbicide management policy ESKPBAAD4
01/08/2002	1	Troy Govender	Authorised by
22/05/2002	0	Troy Govender	Original issue

7. DEVELOPMENT TEAM

The following people were involved in the development of this document:

- Troy Govender, Manager, Environmental Management, SHEQS Department

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