

**ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT STUDY
FOR
SIERRA TROPICAL LTD's AGRICULTURAL PROJECT IN LUGBU CHIEFDOM BO
DISTRICT**

**ESIA VOLUME 3: LIST OF DOLEFIL-APPROVED
AGROCHEMICALS AND THEIR MSDS**

Prepared by

CEMMATS Group Ltd



Freetown, Sierra Leone

on behalf of:

**SIERRA TROPICAL
LIMITED (STL)**

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Signed by:



Andrew Keili

CEMMATS Group Ltd
Beyoh House
7A Cantonment Road
Off King Harman Road
Brookfields
Freetown
Sierra Leone
Email: akeili@cemmatssl.com
Tel: +232 76602174
Website: www.cemmatssl.com

TABLE OF CONTENTS

DOCUMENT HISTORY	ii
TABLE OF CONTENTS	iv
1 INTRODUCTION	5
MATERIAL SAFETY DATA SHEETS	8

1 INTRODUCTION

The following list highlights the full range of chemicals approved for use in Dole's operations. It is not likely that most of these chemicals will be used, but at this stage it is difficult to identify exactly which ones will be required for the project. The Material Safety Data Sheets for these chemicals are included in this volume.

Table Error! No text of specified style in document.-1: Fertilizers

Fertilizer Material	Element	%
Urea	N	46
Ammonium Sulfate	N	21
Monoammonium Phosphate	N	12
	P ₂ O ₅	60
Diammonium Phosphate	N	18
	P ₂ O ₅	46
Potassium Sulfate	K	42
Sulfate of Potash		
Potassium Chloride	K	50
Muriate of Potash	K ₂ O	60
	K ₂ O	22.1
	Mg	11.2
Potassium Magnesium Sulfate	S	22.5
	Ca	25
	Mg	11
CalMag	Ca	11
	Mg	7
Calcium Chloride	Ca	27
Calcium Nitrate	Ca	19
	N	15.5
Amino Acid chelated Calcium-Boron	N	25
	Ca	12
	B	5
Magnesium Sulfate, Anhydrous	Mg	20
Magnesium Sulfate, Heptahydrate	Mg	10
Molybdenum Amino Acid Chelate	Mo	10-20
Zinc Sulfate Heptahydrate	Zn	20
Ferrous Sulfate Heptahydrate	Fe	20
Sodium Tetraborate Pentahydrate	B	15
Elemental Sulfur	S	99.9
Phosphorous Acid (Nutriphite P Soil 0-60-0)	H ₃ PO ₃	70

Table Error! No text of specified style in document.-2: Pesticides

Product Name	Active Ingredient	%
Insecticides		
Lorsban 40 EC	Chlorpyrifos	40
Vessel 400 EC	Chlorpyrifos	40
Pyrinex 40 EC	Chlorpyrifos	40
Diazinon 60 EC	Diazinon	58.8
Magister 200 SC	Fenazaquin	18.2
Siege Pro 73 G	Hydramethylnon	0.73
Cosavet DF	Sulfur	80
Fungicides		
Aliette 80 WP	Fosetyl- Al	80
Ridomil Gold 480 SL	Metalaxyl-M	48
Cuprofix WG	Metallic Cu	20
Tilt 250 EC	Propiconazole	25
Herbicides		
Fezpac 80 WP	Ametryne	80
Hyvar-X	Bromacil	80
Diuron 80 WP	Diuron	80
Onecide 15 EC	Fluazifop p-butyl	15
Pounce 480	Glyphosate IPA	48
Assure II EC	Quizalofop p-ethyl	10.3
Surfactants		
Enspray N	Paraffinic oil	100
Silwet 408	Polyalkyleneoxide Modified Heptamethyltrisiloxane	70-100

Table Error! No text of specified style in document.-3: Plant Growth Regulators

Product Name	Active Ingredient	%
Maintain CF125	Chlorflurenol methyl ester	12.5
Ethrel	Ethephon	48
Xtragro 480 PGR	Ethephon	48
Leadthrel	Ethephon	48
Ethylene	Ethylene	98.9
Gibberellic Acid, Technical grade	GA ₃	90
Fast Gro Cytokinin	Kinetin	0.04
X-Cyte		0.04
Ericin	Etephon	43.3

Table Error! No text of specified style in document.-4: Post Harvest Chemicals

Product Name	Active Ingredient	%
Aluminum Sulfate	Al ₂ (SO ₄) ₃ .14H ₂ O	100
Calcium Hypochlorite/ Hypochlorous Acid	Ca(OCl)2.2H ₂ O	100
Ethyl formate	Ethyl formate	100
Decco Lustr 444	Oleic acid, Propylene glycol, Sodium monostearate, Ethoxylated	<5 <50 10-40

MATERIAL SAFETY DATA SHEETS