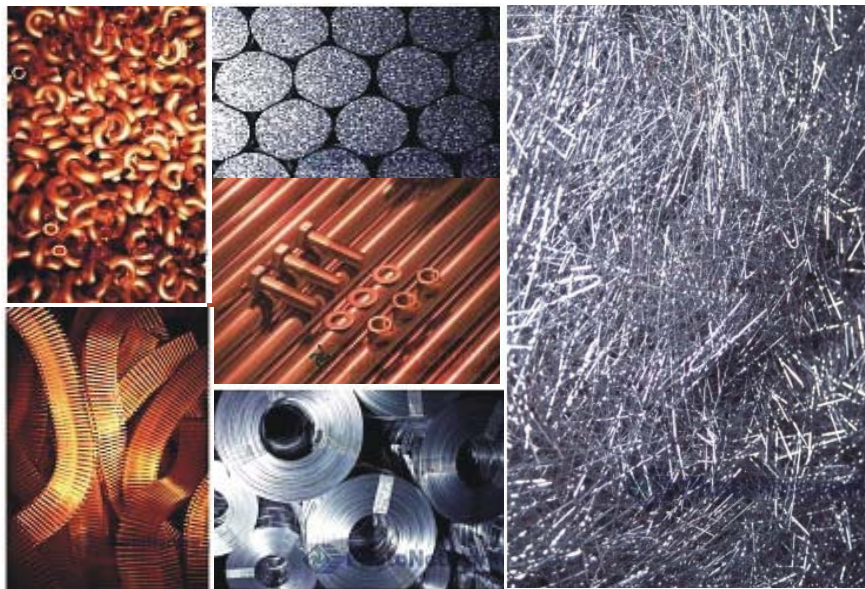


DIRECTORY D10/2007

**PRODUCERS OF NON - FERROUS
METAL COMMODITIES IN
SOUTH AFRICA, 2007**

DIRECTORATE: MINERAL ECONOMICS



the dme

Department:
Minerals and Energy
REPUBLIC OF SOUTH AFRICA

DIRECTORY D10/2007

**PRODUCERS OF NON - FERROUS METAL
COMMODITIES IN SOUTH AFRICA
2007**

DIRECTORATE: MINERAL ECONOMICS

Compiled by: Thomas Chili
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THIS IS THE 15TH EDITION PUBLISHED IN NOVEMBER 2007

WHEREAS THE GREATEST CARE HAS BEEN TAKEN IN THE COMPILATION OF THE CONTENTS OF THIS PUBLICATION, THE DEPARTMENT OF MINERALS AND ENERGY DOES NOT HOLD ITSELF RESPONSIBLE FOR ANY ERRORS OR OMISSIONS

FOREWORD

The dynamic nature of the industry pertaining to the non-ferrous metals produced in South Africa necessitated revision of this, the fifteenth edition of the directory, which was first published in 1986.

Listed information includes contact details of the primary producers, secondary producers, semi manufacturers, chemical producers as well as marketing agents of the various non-ferrous metal commodities. Also included are the e-mail and website addresses of those companies that are connected. Moreover, flow diagrams of some individual commodities are included.

The assistance of industry in the compilation of the directory is acknowledged. It is hoped that this directory will prove useful to the producers, marketers and consumers of South Africa's non-ferrous base metal commodities and assist in the promotion of this country's mineral industry and trade. Any comments or information that could lead to an improvement in this directory are welcomed.

NOVEMBER 2007

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ABBREVIATIONS

approx	-	approximately
km	-	kilometre
kt	-	kiloton
kt/a	-	kiloton per annum
LME	-	London Metal Exchange
max	-	maximum
mic	-	metal-in-concentrate
min	-	minimum
mm	-	millimetre
na	-	not applicable
optim	-	optimum
ppm	-	parts per million
t	-	metric ton

ALUMINIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
----------	-------------------	---------	-----------

PRIMARY PRODUCERS

Group1. **BILLITON ALUMINIUM SOUTH AFRICA LTD**

PO Box 897
3900 RICHARDS BAY

Tel: +27 35 908 8111
Fax: +27 35 908 8160
Website: <http://www.bhpbilliton.com>

Smelters1.2 **HILLSIDE ALUMINIUM**

P O Box 897
3900 RICHARDS BAY

Tel: +27 35 908 8111
Fax: +27 35 908 8160
E-mail: info@hillside.co.za
Website: <http://hillside.co.za>

Production capacity 500 kt/a, using imported alumina as feedstock.

Primary aluminium sold as: Melting ingot.

BHP BILLITON MARKETING SOUTH AFRICA

South African Office
P O Box 284
3900 RICHARDS BAY
Tel: +27 35 999 2233
Fax: +27 35 999 2714

1.3 **BAYSIDE ALUMINIUM**

P O Box 284
3900 RICHARDS BAY

Tel: +27 35 999 2111
Fax: +27 35 999 2710
E-mail: info@bayside.co.za

Production capacity 176 kt/a using imported alumina as feedstock.

Primary aluminium sold as:
Rolling ingot;
Extrusion ingot;
Melting ingot;
Rim alloy;
Redraw Rod.

BHP BILLITON MARKETING AG

Swiss Office
P O Box 105
CH – 6341 Baar
SWITZERLAND
Tel: +41 41 766 80 80
Fax: +41 41 766 80 88

SECONDARY PRODUCERS & SEMIS MANUFACTURERS

Group2. Plant**HULAMIN LTD**

PO Box 74
3200 PIETERMARITZBURG

Tel: +27 33 395 6911
Fax: +27 33 394 6335
Website: <http://www@hulamin.co.za>

Semis manufacturer;
Plants at Pietermaritzburg, Olifantsfontein and Cape Town

Extrusions;
Rolled products;
Can stock;

HULAMIN LTD

ALUMINIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
3	ZIMCO GROUP (PTY) LTD PO Box 519, GERMISTON,1400 Tel: +27 11 827 5413 Fax: +27 11 824 8465 / 2232 E-mail: peterc@frys.co.za		
<u>Plant</u>			
3.1	ZIMCO ALUMINIUM COMPANY (PTY) LTD PO Box 5044, BENONI SOUTH,1502 Tel: +27 11 914 4300 Fax: +27 11 914 4784 E-mail: bobs@zimalco.co.za Website: http://www.zimalco.co.za	Secondary smelter <u>Aluminium Foundry alloy ingot</u> <u>Aluminium Powder</u> <u>Aluminium master alloys</u> <u>Deoxidant</u>	ZIMCO ALUMINIUM COMPANY (PTY) LTD
<u>Company/Plant</u>			
4.	NON FERROUS METAL WORKS (SA) (PTY) LTD PO Box 25, DURBAN,4000 Tel: +27 31 480 7389 Fax: +27 31 468 6934 Websites: http://www.nfm.co.za E-mail: eb@nfmho.co.za	Secondary Smelter <u>Secondary aluminium alloyNON-ingot</u>	FERROUS METAL WORKS (SA) (PTY) LTD
<u>Plant</u>			
5.	WISPECO (PTY) LTD PO Box 124167, ALRODE,1451 Tel: +27 11 389 0000 +27 21 551 7838 +27 31579 8308 / 8300 Fax: +27 11 908 0301 +27 21 551 7830 +27 31 579 8310 / 8301 E-mail: millsales@wispeco.co.za Website: http://www.wispeco.com	Extruding, anodising and powder coating <u>Extrusions</u> <u>Anodised semis</u> <u>Doors and windows</u>	WISPECO (PTY) LTD

ANTIMONY

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
----------	-------------------	---------	-----------

PRIMARY PRODUCER

Group

1. **METOREX LTD**
 2nd floor, Cradle Heights,
 21 Cradock Avenue
 ROSEBANK, 2146
- Tel: +27 11 880 3122
 Fax: +27 11 880 3322
 Email: info@metorexgroup.com
 Website: http://www.metorexgroup.com

Mine

- | | | | | |
|-----|---|--|---|--------------------|
| 1.1 | CONSOLIDATED MURCHISON
Farms Josephine 777 LT,
Dist PHALABORWA
Limpopo Province
RSA
Tel: +27 15 318 8000
Fax: +27 15 318 8004
E-mail: cons@mweb.co.za | Underground mine, modified sublevel open stoping | <u>Antimony sulphide concentrates</u>
Approx. 59% Sb | METOREX LTD |
|-----|---|--|---|--------------------|

Mine code: 112

Farm, District, Province
 Claimland 780 LT
 Josephine 777 LT
 Various farms
 LETABA
 LIMPOPO

PROCESSING COMPANIES

Plant

- | | | | | |
|-----|--|--|--|--------------------|
| 1.2 | ANTIMONY PRODUCTS (PTY) LTD
Private Bag 401,
GRAVELLOTTE,0895

Tel: +27 15 318 8001/2/3
Fax: +27 15 318 8004 | Converter, stibnite concentrate obtained from Consolidated Murchison for conversion to antimony trio-xide. | <u>Crude antimony trioxide</u>
Approx 97% Sb ₃ O ₃
or 81% Sb | METOREX LTD |
|-----|--|--|--|--------------------|

ANTIMONY

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
2. ZIMCO GROUP (PTY) LTD PO Box 519, GERMISTON,1400 Tel: +27 11 827 5413 Fax: +27 11 824 4865 / 2235 E-mail: peterc@frys.co.za			
<u>Plant</u>			
2.1 ZIMCO GROUP (PTY) LTD T/A ASSOCIATED ADDITIVES PO Box 12043, JACOBS,4026 Tel: +27 31 468 1755 Fax: +27 31 468 1561 E-mail: ingrid@almstab.co.za Website: http://www.almstab.co.za	Refinery crude raw material obtained from Antimony Products (Pty) Ltd	<u>Refined antimony trioxide</u> Timonox O-grade typically 97% Sb Timonox Red Star grade: typically 99,5% Sb	ASSOCIATED ADDITIVES

COBALT

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
----------	-------------------	---------	-----------

PRIMARY PRODUCERS

Group

1. **IMPALA PLATINUM HOLDINGS LTD**
Private Bag x18,
NORTHLANDS, 2116
- Tel: +27 11 731 9000
Fax: +27 11 731 9254
Email: alan.snashall@implats.co.za
Website: http://www.amplats.co.za

Mine

- 1.1 **IMPALA PLATINUM LIMITED**
P.O. BOX 5683,
RUSTENBURG, 0300
- Tel: +27 14 569 0000
Fax: +27 14 569 6548

Mine Code: 2434

Notes: All underground mines with centre gully and strike tracks. Mines send ore to Impala Platinum Mineral Processes Ltd for concentration and smelting. A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Platinum Ltd Refineries.

Plants

- | | | | | |
|-----|---|--|--|-------------------------------------|
| 1.2 | IMPALA PLATINUM MINERAL PROCESSES LTD
PO Box 1050,
RUSTENBURG,0300 | The ores of Impala Platinum Limited are concentrated and smelted. | A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Ltd Refineries. | |
| 1.3 | IMPALA PLATINUM LTD REFINERIES
PO Box 222,
SPRINGS,1560 | Refinery, converter matte received from Impala Platinum Ltd via Mineral Processes, Rustenburg. | <u>Cobalt metal powder</u>
Co+Ni 99,8% min
and typically:
% max
Ni 0,05
Fe 0,005
Cu 0,005
S 0,03
C 0,05 | IMPALA PLATINUM HOLDINGS LTD |
- Tel: +27 14 569 0000
Fax: +27 14 569 7056
- Tel: +27 11 360 3111
Fax: +27 11 360 3682

COBALT

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
2.	ANGLO AMERICAN PLATINUM CORPORATION (ANGLO PLATINUM) PO Box 62179 MARSHALLTOWN, 2107 Tel: +27 11 373 6111 Fax: +27 11 373 5111 / 834 2379 E-mail:		
<u>Mines</u>			
2.1	LEBOWA PLATINUM MINES LTD PO Box 1, ATOK,0749 Tel: +27 15 619 0044 Fax: +27 15 619 0010 Mine code: 28 <u>Farms, district, Province</u> Middelpunt 420 KS Umkoeanestad 419 KS Zeekoegat 421 KS Diamand 422 KS SEKHUKHUNELAND LIMPOPO	Underground mine: Atok	<u>Concentrates</u> Toll refined by RPM, which acts as its principal marketing agent of cobalt sulphate.
			RUSTENBURG PLATINUM MINES LTD Tel: +27 11 373 6111
2.2	POTGIETERSRUST PLATINUM LTD Private Bag X2463, MOKOPANE,0600 Tel: +27 15 418 2000 Fax: +27 15 418 2018 Mine code: 1526 <u>Farm, District, Province</u> Vaalkop 819 LR Sandsloot 236 KR Zwartfontein 818 LR Overysel 815 LR Tweefontein 236 KR Rietfontein 249 KR Knapdaar 234 KR POTGIETERSRUS LIMPOPO	Opencast/underground mine.	<u>Concentrates</u> To Rustenburg Platinum Ltd for toll-smelting.
			RUSTENBURG PLATINUM MINES LTD

COBALT

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
2.3	RUSTENBURG PLATINUM MINES LTD	PGM concentrates Toll refined by RPM which also acts as its principal marketing agent of cobalt sulphate.	RUSTENBURG PLATINUM MINES LTD Tel: +27 11 373 6111
2.3.1	RUSTENBURG SECTION PO Box 8208, RUSTENBURG, 0300 Tel: +27 14 598 9111 Fax: +27 14 567 1383 Mine code: 555		
2.3.2	AMANDELBULT SECTION PO Box 2, CHROMITE, 0362 Tel: +27 14 784 1111 Fax: +27 14 784 1230 Mine code: 556		
2.3.3	UNION SECTION Private Bag X351, SWARTKLIP,0370 Tel: +27 14 786 1000 Fax: +27 14 786 0223 Mine code: 554		

PRODUCING SECTIONS OF RUSTENBURG PLATINUM MINES LTD

MINE ADDRESS	RUSTENBURG SECTION	AMANDELBULT SECTION	UNION SECTION
PO Box (Private Bag)	8208	2	(351)
Post Office	RUSTENBURG,0300	CHROMITE,0362	SWARTKLIP,0370
Tel:	+27 14 598 9111	+27 14 784 1111	+27 14 786 1000
Fax:	+27 14 567 1383	+27 14 784 1230	+27 14 786 0223
Farms	Klipfontein 300 JQ Brakspruit 299 JQ Townlands 272 JQ Paardekraal 279 JQ Waterval 303 JQ Turfontein 302 JQ Klipgat 281 JQ Hoedspruit 298 JQ Boschfontein	Zwartkop 369 KQ Amandelbult 383 KQ Schilpadsnest 385 KQ Elandsfontein 386 KQ Middellaagte 382 KQ Elandskuil 378 KQ Haakdongdrift 374 KQ Moddergat 389 KQ	Turfbult 404 KQ Zwartklip 405 KQ Haakdong 6 KQ Spitskop 410 KQ
District	RUSTENBURG	THABAZIMBI	THABAZIMBI
Province	NORTH-WEST	LIMPOPO	LIMPOPO

Notes: All mining underground; breast stoping in all sections; in addition, long-

COBALT

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<p>walling is employed in Rustenburg Section. Products: Platinum-group metals: Platinum, palladium, rhodium, iridium, ruthenium and osmium as well as gold, silver and base metals: nickel, copper and cobalt sulphate.</p>			
<u>Plant</u>			
<p>2.4 RUSTENBURG METAL REFINERS (PTY) LTD PO Box 483, RUSTENBURG, 0300</p> <p>Tel: +27 14 591 4000 Fax: +27 14 591 1102 www.angloamerican.com</p>	<p>Refinery; matte from the conversion at Rustenburg (of Union and Rustenburg arc furnace matte) is received from Rustenburg Smelter. Following pretreatment, to remove precious metal-bearing materials, the matte is treated for the separation and production of the base metals.</p>	<p><u>Cobalt sulphate heptahydrate</u> (CoSO₄.7H₂O) Co 21 to 22%</p> <p><u>ppm max</u> Ni 50 Mg 200 Na 50</p>	<p>RUSTENBURG BASE PLATINUM MINES LTD</p> <p>Tel: +27 11 373 6111</p>
<u>Group</u>			
<p>3. AFRICAN RAINBOW MINERALS LIMITED PO Box 782058 SANTON, 2146</p> <p>Tel: +27 11 779 1000 Fax: +27 11 779 1029 Website: http://www.arm.co.za</p>			
<u>Mine</u>			
<p>3.1 NKOMATI MINE PO Box 562 MACHADODORP, 1170</p> <p>Tel: +27 13 712 8200 Fax: +27 13 712 8300</p> <p>Mine code: 3139</p>	<p>Underground mine; a form of drift, bench and fill type mining method with a concentrator plant.</p>	<p><u>Cobalt-in-concentrate</u></p>	<p>ARM LTD</p>
<u>Farm, District, Province</u>			
<p>Nkomati, Claihoek 540 Jt WATERVAL-BOVEN MPUMALANGA</p>			

COBALT

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
3.2 MODIKWA PLATINUM MINE Private Bag x9120 DRIESKOP, 1129 Tel: +27 13 230 2000 Fax: +27 13 230 2036 Mine code: 1255 <u>Farm, District, Province</u> Drieskop 253KT, Hendriksplaats 281 KT, Maandagshoek 254KT, Onverwach 292 KT, Winterveld 293KT LYDENBURG MPUMALANGA	Underground mine.	<u>cobalt-in-concentrate</u>	ARM

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
PRIMARY PRODUCERS			
<u>Group</u>			
1.	ANGLO OPERATIONS LIMITED PO Box 61587 MARSHALLTOWN, 2107 Tel: +27 11 638 9111 Fax: +27 11 638 3558 Website: http://www.angloamerican.co.uk		
<u>Mine</u>			
1.1	BLACK MOUNTAIN (A division of Anglo Operations Limited) Private Bag X01 AGGENEYS, 8893 Tel: +27 54 983 9200 Fax: +27 54 983 9244 Mine code: 195 <u>Farm, District, Province</u> Aggeneys 56, Koeris 54 PTI, Zuurwater 62 PTN4 KENHARDT NORTHERN CAPE	Underground mine; blast hole and cut-and-fill stopes <u>Concentrates</u> approx 28% Cu	ANGLO OPERATIONS LIMITED
<u>Mine and Plant</u>			
2.	PALABORA MINING PO Box 65 PHALABORWA, 1390 Tel: +27 15 780 2911 Fax: +27 15 780 2018 enquiries@palabora.co.za Website: http://www.palabora.co.za Mine code: 489 <u>Farm, District, Province</u> Loole 31 LU, Wegsteek 30LU PHALABORWA LIMPOPO	Underground mine Rod casting plant Smelter and electrolytic	<u>Cathode</u> of 99,7% conforms to LME, ASTM & BSS standards for electrolytic copper PALABORA MINING LTD

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Controlling Company</u>			
3.	IMPALA PLATINUM HOLDINGS LTD PO Box 61386 MARSHALLTOWN, 2107 Tel: +27 11 481 3900 Fax: +27 11 484 0254 Website: http://www.implats.co.za		
<u>Mine</u>			
3.1	IMPALA PLATINUM LIMITED P.O. BOX 5683 RUSTENBURG,0300 Tel: +27 14 569 0000 Fax: +27 14 569 6548 Mine code: 2434	Underground	
<u>Farm, District, Province</u> Dooornspruit 106JQ, Vaalkop 275JQ, Wildebeesfontein 274JQ BAFOKENG NORTH WEST			
Notes: All underground mines with centre gully and strike tracks. Mines send ore to Impala Platinum Mineral Processes Ltd for concentration and smelting. A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Platinum Ltd Refineries.			
<u>Plants</u>			
3.2	IMPALA PLATINUM MINERAL PROCESSES LTD PO Box 5683 RUSTENBURG,0300 Tel: +27 14 569 0000 Fax: +27 14 569 7056	The ores of Impala Platinum Limited are concentrated and smelted.	A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Ltd Refineries.
<u>Plants</u>			
3.3	IMPALA PLATINUM LTD REFINERIES PO Box 222 SPRINGS, 1560 Tel: +27 11 360 3111 Fax: +27 11 360 3682	Refinery; converter matte received from Impala Platinum Ltd Mineral Processes, located near Rustenburg	<u>Electrowon cathode</u> Cu 99,8% Nickel, iron, tellurium , lead; each not more than 0,01%
			IMPALA PLATINUM HOLDINGS LTD

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
4.	ANGLO AMERICAN PLATINUM CORPORATION LTD (ANGLO PLATINUM) PO Box 62179 MARSHALLTOWN, 2107 Tel: +27 11 373 6111 Fax: +27 11 373 5111/ 834 2379 Website: http://www.angloplatinum.com		
<u>Mine</u>			
4.1	LEBOWA PLATINUM MINES LTD (For details see page 6 under cobalt)		
4.2	POTGIETERSRUST PLATINUM LTD (For details see page 6 under cobalt)		
4.3	RUSTENBURG PLATINUM MINES LTD (For details see page 7 under cobalt)		
4.3.1	RUSTENBURG SECTION (For details see page 7 under cobalt)		
4.3.2	AMANDELBULT SECTION (For details see page 7 under cobalt)		
4.3.3	UNION SECTION (For details see page 7 under cobalt)		
4.3.4	RUSTENBURG BASE METAL REFINERS (PTY) LTD PO Box 483 RUSTENBURG, 0300 Tel: +27 14 591 4000 / 4140 Fax: +27 14 591 1102	Refinery; matte from the converter at Rustenburg (of Union and Rustenburg arc furnace matte) is received from Rustenburg Smelter. Following pre-treatment, to remove precious materials, the matte is treated for the separation	<u>Electrowon cathode</u> Cu 99,9% min ppm max Ni 50 Se 20 Pb 40
			RUSTENBURG PLATINUM MINES LTD PO Box 62179 MARSHALLTOWN,2107 Tel: +27 11 373 6111

and production of the
Stumper .

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
5. LONMIN PLC PO Box 98811 SLOANE PARK, 2152 Tel: +27 11 516 1300 Fax: +27 11 516 1310 E-mail: contact@lonmin.com Website: http://www.lonmin.com			
5.1 MARIKANA MINING DIVISIONS (Western Platinum) Private Bag X508 MARIKANA,0284 Fax: +27 14 571 3151 Tel: +27 14 571 2000 Mine: 4115 <u>Farm, District, Province</u> Middelkraal 466 JQ MARIKANA NORTH-WEST <u>Mines</u>	Underground mine; a form of up-dip stoping; concentrator; smelter and base metal refinery. Merenski & UG2 and precious metals refinery.	<u>Electrowon cathode copper</u> <u>Nickel Sulphate</u>	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154
5.2 KAREE MINE (A division of Marikana Not a separate mine) Private Bag X 505 MARIKANA,0284 Tel: +27 14 572 3204 Fax: +27 14 572 3155 E-mail: karee@lonplats.com <u>Farm, District, Province</u> Rooikoppies 297 JQ RUSTENBURG NORTH-WEST PROVINCE	Underground mine reefs: Merensky & UG2	Copper	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154

5.3	EASTERN PLATINUM LTD Private Bag X700 MOOINOOI,0325 Tel: +27 12 318 3500 Fax: +27 12 318 3624 <u>Farm, District, Province</u> Turfontein BRITS NORTH-WEST	Underground mine. Open casting was discontinued in May 1992.	Platinum-group metals, gold, silver and base metals; nickel sulphate and copper.	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154
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COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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Mines

5.4	LONMIN PLATINUM LIMPOPO Postnet suite Private Bag X9676 POLOKWANE,07 Tel: +27 15 633 8237 Fax: +27 86 635 0628 Mine code: 2783	Underground mine.	<u>Copper-in-oncentrate</u>	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154
-----	---	-------------------	-----------------------------	--

Farm, District, Province

Kaffirkraal 167s, Kalkbult 169ks' Turfpan 122ks, Voorspoed, Zebedelias Location
 THABAMOOPO
 LIMPOPO

Group

6.	NORTHAM PLATINUM LIMITED 1 st Floor 1A Albury Park Magalieszicht Avenue Dunkeld West JOHANNESBURG, 2126 Tel: +27 11 759 6000 Fax: +27 11 325 4795
----	--

Mine

6.1	NORTHAM PLATINUM LTD PO Box 441 THABAZIMBI, 0380 Tel: +27 14 784 3200 Fax: +27 14 785 0141 Mine code: 1853	Deep level underground mining; Hydropower technology.	Ag; Au; Ir; Os; Pd; Pt Rh; Ru; Nickel sulphate Copper cathode	NORTHAM PLATINUM LTD
-----	--	---	--	-----------------------------

Farm, District, Province

Amandellbult 383KQ, Elandsfontein 386KQ, Zondereinde 348 KQ
 THABAZIMBI
 LIMPOPO

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
7. AFRICAN RAINBOW MINERALS LIMITED (ARM) PO Box 782058 SANTON,2146 Tel: +27 11 779 1000 Fax: +27 11 779 1029 Website: http://www.arm.co.za			
<u>Mines</u>			
7.1 NKOMATI MINE PO Box 562 MACHADODORP,1170 Tel: +27 13 712 8200 Fax: +27 13 712 8300 Mine code: 3139 <u>Farm, District, Province</u> Nkomati, Slaaihoek 540 Jt WATERVAL-BOVEN MPUMALANGA	Underground mine; a form of drift, bench and fill type mining method with a concentrator plant.	<u>copper-in-concentrate</u>	ARM LTD
7.2 MODIKWA PLATINUM MINE Private Bag x9120 DRIESKOP,1129 Tel: +27 13 230 2000 Fax: +27 13 230 2036 Mine code: 1255 <u>Farm, District, Province</u> Drieskop 253KT, Hendriksplaats 281 KT, Maandagshoek 254KT, Onverwach 292 KT, Winterveld 293KT LYDENBURG MPUMALANGA	Underground mine.	<u>cobalt-in-concentrate</u>	ARM LTD

COPPER

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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SECONDARY PRODUCERS AND SEMIS MANUFACTURERS

Company/Plant

- | | | | | |
|-----|--|--|--|-----------------------------------|
| 8.1 | COPALCOR ROLLED METALS
Private Bag X030
WADEVILLE,1422

Tel: +27 11 821 0700
Fax: +27 11 827 8750
Website: http://copalcor.co.za
Email: crm@copalcor.co.za | Smelting, castin
and semimanufac-
ture of copper
and copper alloys,
based largely on
scrap. | Rolled products of
copper and brass | COPALCOR ROLLED
METALS |
| 8.2 | BRASS EXTRUDERS SA
Private Bag X030
WADEVILLE,1422

Tel: +27 11 821 0700
Fax: +27 11 827 4330 | Smelting, casting
and semimanufac
ture of copper alloys,
based largely on
scrap | Extruded and drawn
products of copper
and alloys | BRASS EXTRUDERS
SA |

Company/Plant

- | | | | | |
|-----|--|---|--|--|
| 8.3 | NON FERROUS METAL
WORKS (SA) (PTY) LTD
PO Box 25
DURBAN, 4000

Tel: +27 13 480 7388
Fax: +27 13 468 6934
E-mail: nonferrous@eastcoast.co.za
Websites: http://www.nfm.co.za
Websites: http://www.nfmworks.com | Smelting,
casting and
semi-manufac-
ture of copper
and copper
alloys; based
largely on scrap. | <u>Extrusions</u> of copper
and brass; <u>ingots</u>
of copper & copper
& alloys.
<u>drawn shapes</u> of copper
and copper alloys;
<u>Solid and hollow continuous
castings</u> of bronze
and gunmetal;
<u>centrifugal castings</u>
of bronze and gunmetal | NONFERROUS
METAL
WORKS
(SA) (PTY) LTD |
|-----|--|---|--|--|

Group

- | | | | | |
|----|---|--|--|--|
| 9. | ZIMCO GROUP (PTY) LTD
PO Box 519
GERMISTON,1400

Tel: +27 11 827 5413
Fax: +27 11 824 4865 / 2235
E-mail: peterc@frys.co.za
<u>Plant</u> | | | |
|----|---|--|--|--|

9.1	ZINCHEM (PTY) LTD PO Box 6645 DUNSWART 1508 Tel: +27 11 746 5000 Fax: +27 11 746 5050 E-mail: sales@zinchem.co.za Websites: http://www.zinchem.co.za	<u>Copper Sulphate</u> <u>Penta and monohydrate</u>	ZINCHEM- a division of ZIMCO (PTY) LTD
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LEAD

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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PRIMARY PRODUCERSGroup

1. **ANGLO OPERATIONS LIMITED**
PO Box 61587
MARSHALLTOWN,2107

Tel: +27 11 638 9111
Fax: +27 11 638 3558
Website: <http://www.angloamerican.co.uk>

Mine

- | | | | | |
|-----|---|---|--|---------------------------------|
| 1.1 | BLACK MOUNTAIN
(A division of Anglo Operation Limited)
Private Bag X01
AGGENEYS,8893 | Underground mine; blast hole and cut-and-fill stopes. | <u>Lead concentrate</u>
Approx 73% Pb | ANGLO OPERATIONS LIMITED |
|-----|---|---|--|---------------------------------|

Tel: +27 54 983 9200
Fax: +27 54 983 9244

Mine code: 195

Farm, District, Province
Aggeneys 56, Koeris 54 PTI, Zuurwater 62 PTN4
KENHARDT
NORTHERN CAPE

SECONDARY PRODUCERS & SEMIS MANUFACTURERSGroup

2. **ZIMCO GROUP (PTY) LTD**
PO Box 519
GERMISTON,1400

Tel: +27 11 827 5413
Fax: +27 11 824 2232 / 4865
Website: <http://www.zimco.co.za>

Plant

2.1	FRY'S METALS (PTY) LTD PO Box 519 GERMISTON,1400 Tel: +27 11 827 5413 Fax: +27 11 824 2232 / 4865	Smelting and refining of secondary lead.	<u>Ingot:</u> Sb alloys; Ca alloys; Refined soft lead.	FRY'S METALS (PTY) LTD
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LEAD

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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SEMIS MANUFACTURER

Plant

2.2	CASTLE LEAD WORKS (TRANVAAL) (PTY) LTD PO Box 3472 KENMARE,1745 Tel: +27 11 955 3570 Fax: +27 11 955 2372 Email: tonyp@castlelead.co.za Website: http://www.castlelead.co.za	Factory for lead semi-manufactured products, lead installation and maintenance.	Extrusions, stampings, castings, fabricated products, lead sheet and pipe, lead alloys, lead anodes, lead plumbum.	CASTLE LEAD WORKS (TVL) (PTY) LTD
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SOLDER PRODUCERS

Plant

3.	AFRISOL (PTY) LTD PO Box 18084 SUNWARD PARK,1470 Tel: +27 11 865 4141 Fax: +27 11 865 4144 Email: Afrisol@mweb.co.za	Manufacture of soft solders, white metals, jewellery metals, special alloys and soldering fluxes.	Ingots, bars, sticks, blowpipe, wires and solder paint.	AFRISOL (PTY) LTD
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Plant

4.	NATIONAL SOLDER CO (TVL.) (PTY) LTD P O Box 1258 GERMISTON,1400 Tel: +27 11 873 9000 Fax: +27 11 825 4528 E-mail: solder@nationalsolder.com Website: http://www.nationalsolder.com	Manufacturers of solders, white metal, jewellery metals, fluxes, solder paint, solder powder, lead products and lead came.	Resin and acid, cored wire, solid wire, blowpipe, stick, bar ingot, extrusions white metal-spray wire.	NATIONAL SOLDER CO (TVL.) (PTY) LTD
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Plant

5.	TECHMET (PTY) LTD 402 Murray Road WADEVILLE,1422	Manufacture of solder, bar, wire, sticks metals, powders, pastes and special	Ingots, wire, bar, sticks, pastes, paints.	TECHMET (PTY) LTD
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Tel; +27 11 824 1427
 Fax: +27 11 824 3150
 E-mail: info@mweb.co.za

alloys. Also electronic
 fluxes and pastes.

LEAD

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
PRINCIPAL CHEMICAL PRODUCERS			
<u>Group</u>			
6.	ZIMCO GROUP (PTY) LTD PO Box 519, GERMISTON,1400		
	Tel: +27 11 827 5413 Fax: +27 11 824 4865 / 2235 E-mail: peterc@frys.co.za		
<u>Plant</u>			
6.1	ZIMCO GROUP (PTY) LTD T/A ASSOCIATE ADDITIVES PO Box 12043 JACOBS,4026	Production of lead chemicals from primary lead.	<u>Lead oxide and associated chemicals</u> ASSOCIATE ADDITIVES
	Tel: +27 31 468 1755 Fax: +27 31 468 1561 E-mail: ingrid@almstab.co.za Website: http://www.almstab.co.za		
<u>Plant</u>			
7.	ROLFES COLOUR PIGMENT INTERNATIONAL PO Box 8112 ELANDSFONTEIN,1406	Chemical pro- cessing based on primary lead and sodium di- chromate raw	<u>Lead chrome pigments and organic pigments</u> ROLFES COLOUR PIGMENTS INTERNATIONAL
	Fax: +27 11 874 0634 Fax: +27 11 874 0789 E-mail: sales@rcpi.co.za Website: http://www.rcpi.co.za	materials as well as organic pigment Intermediates.	

MAGNESIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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ALLOY PRODUCERS

Group

1. **NIMAG LTD**
 P O Box 1401
 KELVIN,2054
- Tel: +27 11 803 8247
 Fax: +27 11 803 8323
 E-mail: nimag@global.co.za

Plants

- | | | | | |
|-----|---|---|--|---|
| 1.1 | NIMAG LTD
PO Box 2
MAGALIESBURG,1791

Tel: +27 14 577 1330
Tel: +27 14 577 1337
E-mail: nimag@global.co.za | Melting, alloying
casting and semi-
manufacturing
facilities | Manufacturers of
masteralloys,
fenimag nickel
magnesium and associated
products. | NIMAG LTD |
| 1.2 | MAGBERG MANUFACTURING (PTY) LTD
P O Box 2
MAGALIES, 1791

Tel: +27 11 803 8247
Fax: +27 11 803 8323
E-mail: nimag@global.co.za | | Manufacturers of
ferrosilicon,
magnesium alloys(PTY) LTD
for ductile iron. | MAGBERG
 MANUFACTURING |

FIBRE PRODUCER

Group

2. **METALLOY FIBRES (PTY) LTD**
 P O Box 1401
 KELVIN, 2054
- Tel: +27 11 803 8247
 Fax: +27 11 803 8323
 E-mail: nimag@global.co.za
 E-mail: info@nimaggroup.com

Plant

2.1 **METALLOY FIBRES (PTY) LTD**
P O Box 1401
KELVIN,2054

Tel: +27 11 803 8247
Fax: +27 11 803 8323
E-mail: nimag@global.co.za

Manufacturers of all
steel and stainless
steel reinforcing
fibres for civils,
shotcrete and
refractories.

**METALLOY
FIBRES (PTY) LTD**

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
PRIMARY PRODUCER			
<u>Group</u>			
1	IMPALA PLATINUM HOLDINGS LTD PO Box 61386 MARSHALLTOWN,2107		
	Tel: +27 11 481 3900 Fax: +27 11 484 0254 Email: alan.snashall@implats.co.za Website: http://www.implats.co.za		
<u>Mine</u>			
1.1	IMPALA PLATINUM LIMITED P.O. BOX 5683 RUSTENBURG,0300		
	Tel: +27 14 569 0000 Fax: +27 14 569 6548		
	Mine code: 2434		
	Notes: All underground mines with centre gully and strike tracks. Mines send ore to Impala Platinum Mineral Processes Ltd for concentration and smelting. A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Platinum Ltd Refineries.		
<u>Plants</u>			
1.2	IMPALA PLATINUM MINE-RAL PROCESSES LTD PO Box 5683 RUSTENBURG,0300	The ores of Impala Platinum Limited are concentrated and smelted.	A matte containing copper, nickel, cobalt and platinum-group metals is produced for delivery to Impala Ltd Refineries.
	Tel: +27 14 569 0000 Fax: +27 14 569 7056		
1.3	IMPALA PLATINUM LTD REFINERIES PO Box 222 SPRINGS,1560	Refinery, converter matte received from Impala Platinum Ltd via Mineral Processes, Rustenburg.	IMPALA PLATINUM HOLDINGS LTD
	Tel: +27 11 360 3111 Fax: +27 11 360 3682		

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Controlling Company</u>			
2.	ANGLO AMERICAN PLATINUM CORPORATION (ANGLO PLATINUM) PO Box 62179 MARSHALLTOWN,2107		
	Tel: +27 11 373 6111 Fax: +27 11 373 5111 Email:traymond@angloplat.com Website: http://www.angloplat.com		
<u>Mine</u>			
2.1	LEBOWA PLATINUM MINES LTD		
	(For details see page 6 under Cobalt)		
2.2	RUSTENBURG PLATINUM MINE LTD		
	(For details see page 7 under Cobalt)		
2.3	POTGIETERSRUST PLATINUM LTD		
	(For details see page 6 under Cobalt)		
<u>Plant</u>			
2.4	RUSTENBURG BASE METAL REFINERS (PTY) LTD PO Box 483 RUSTENBURG,0300	Refinery; matte from the conversion at Rustenburg (of Union and Rustenburg arc furnace matte) is received from Rustenburg smelter. Following pre-treatment, to remove precious metal-bearing materials the matte is treated for the separation and production of the base metals.	<u>Electrowon cathode</u> Whole cathode; Squares 100 mm x 100mm Squares 25 mm x 25mm Strips 100 mm x 900mm
	Tel: +27 14 591 4000 Fax: +27 14 591 1102 www.angloplatinum.com		RUSTENBURG PLATINUM MINES LTD Tel: +27 11 373 6111

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Mine</u>			
3. PALABORA MINING CO LTD PO Box 65 PHALABORWA,1390 Tel: +27 15 780 2911 Fax: +27 15 780 2018 E-mail: enquiries@palabora.co.za Website: http://www.palabora.co.za Mine code: 489 <u>Farm, District, Province</u> Loole 31 LU Wegsteek PHALABORWA LIMPOPO	Underground mine Smelter and electrolytic refinery (Opencast mine ceased production in April 2002. Underground mine became fully operational by December 2002, producing at 30 000 t/day)	<u>Nickel sulphate hexahydrate</u>	PALABORA MINING COMPANY LTD
<u>Group</u>			
4. LONMIN PLC PO Box 98811 SLOANE PARK,2152 Tel: +27 11 516 1300 Fax: +27 11 516 1310 E-mail: contact@lonmin.com Website: http://www.lonmin.com			
4.1 MARIKANA MINING DIVISION (Western Platinum) Private Bag X508 MARIKANA,0284 Tel: +27 14 571 2000 Fax: +27 14 572 3151 Mining code: 4115 <u>Farm, District, Province</u> Middelkraal 466 JQ MARIKANA NORTH-WEST	Underground mine; a form of up-dip stoping; concentrator; smelter and base metal refinery. Merenski & UG2 and precious metals refinery.	<u>Electrowon cathode copper</u> <u>Nickel Sulphate</u>	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154
<u>Mines</u>			
4.2 KAREE MINE (A division of Marikana Platinum Ltd. Not a separate mine) Private Bag X 505 MARIKANA,0284	Underground mine reefs: Merensky & UG2	Copper	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154

Tel: +27 14 572 3204

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING	
Mines continue				
Fax: +27 14 572 3155 E-mail: karee@lonplats.com				
<u>Farm, District, Province</u> Rooikoppies 297 JQ RUSTENBURG NORTH-WEST PROVINCE				
4.3	EASTERN PLATINUM LTD Private Bag X700 MOOINOOI,0325 Tel: +27 12 318 3500 Fax: +27 12 318 3624 <u>Farm, District, Province</u> Turfontein BRITS NORTH-WEST	Underground mine. Open casting was discontinued in May 1992.	Platinum-group metals, gold, silver and base metals; nickel sulphate and copper.	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154
4.5	LONMIN PLATINUM LIMPOPO Postnet suite Private Bag X9676 POLOKWANE,07 Tel: +27 15 633 8237 Fax: +27 86 635 0628 Mine code: 2783 <u>Farm, District, Province</u> Kaffirkraal 167s, Kalkbult 169ks' Turfpan 122ks, Voorspoed, Zebedelias Location THABAMOOPO LIMPOPO	Underground mine.	Nickel in concentrate	WESTERN METAL SALES 4 Grosvenor Place SWIX 7 YL London Tel: 09 44207 201 6000 Fax: 09 44207201 6154

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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Group5. **NORTHAM PLATINUM LIMITED**

1st Floor
 1A Albury Park
 Magalieszicht Avenue
 Dunkeld West
 JOHANNESBURG, 2126
 Tel: +27 11 759 6000
 Fax: +27 11 325 4795

Mine5.1 **NORTHAM PLATINUM LTD**

PO Box 441
 THABAZIMBI,0380

Tel: +27 14 784 3000
 Fax: +27 14 785 0126

Mine Code: 1853

Farms, District, Province

Zondereinde 384 KQ
 Kopje Alleen 422 KQ
 Witvley 423 KQ
 Vrugbaar 381 KQ
 Vrugbaar 387 KQ
 Middeldrift 379 KQ
 Aapieskraal 377 KQ
 Grootkuil 376 KQ
 Amandelbult 383 KQ
 Elandskuil 386 KQ
 THABAZIMBI
 NORTH-WEST

Group6. **AFRICAN RAINBOW MINERALS LTD**

PO Box 782058
 SANTON,2146

Tel: +27 11 779 1000
 Fax: +27 11 779 1029
 Website: <http://www.arm.co.za>

Deep level
 underground.
 mining
 Hydropower.
 technology

Ag; Au;Ir; Os; Pd; Pt
Rh; Ru;
Nickel sulphate
Copper cathode

**NORTHAM
 PLATINUM
 LTD**

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Mine</u>			
<p>6.1 NKOMATI MINE PO Box 562 MACHADODORP,1170</p> <p>Tel: +27 13 712 8200 Fax: +27 13 712 8300 E-mail: nkomatimine@nkomati.co.za</p> <p>Mine Code: 3139</p>	<p>Underground mine; a form of drift, bench and fill type mining method with a concentrator plant.</p>	<p><u>Nickel-in-concentrate</u></p>	<p>ARM LTD</p>
<u>Farm, District, Province</u>			
<p>Nkomati, Slaaihoek 540 Jt WATERVAL-BOVEN MPUMALANGA</p>			
<p>6.2 MODIKWA PLATINUM MINE Private Bag x9120 DRIESKOP,1129 Tel: +27 13 230 2000 Fax: +27 13 230 2036</p>	<p>Underground mine.</p>	<p><u>Nickel-in-concentrate</u></p>	<p>ARM LTD</p>
<p>Mine code: 1255</p>			
<p><u>Farm, District, Province</u> Drieskop 253KT, Hendriksplaats 281 KT, Maandagshoek 254KT, Onverwach 292 KT, Winterveld 293KT LYDENBURG MPUMALANGA</p>			

NICKEL

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
ALLOY PRODUCER			
<u>Group</u>			
7.	NIMAG LTD P O Box 1401 KELVIN,2054 Tel: +27 11 803 8247 Fax: +27 11 803 8323 E-mail: nimag@global.co.za		
<u>Plant</u>			
7.1	NIMAG LTD PO Box 2 MAGALIESBURG,1791 Tel: +27 14 577 1330 Fax: +27 14 577 1337 E-mail: nimag@global.co.za	Melting, alloying-casting and semi-manufacturing facilities.	Manufacturers of masteralloys, fenimag nickel magnesium and associated products.
			NIMAG LTD

TANTALUM/NIOBIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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SUPPLIERS

Company

- | | | | |
|----|---|---|------------------------|
| 1. | <p>FURISA LTD.INC
Private Bag X18,
POSNET SUIT 21,
MILNERTON, 7435</p> <p>Tel: +27 21 551 5230
Fax: +27 21 551 5231
Email: michael@furisa.com
Website: http://www.furisa.com</p> | <p>As tantalite-columbite concentrates. By sundry producers from pegmatites in the Northern Cape, mainly in the Steinkopf Reserve, Namaqualand, but also from neighbouring countries such as Namibia, Zimbabwe & Mozambique</p> | FURISA LTD. INC |
|----|---|---|------------------------|

TITANIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING	
PRIMARY PRODUCERS				
<u>Group</u>				
1.	RICHARDS BAY MINERALS (RBM) PO Box 401 RICHARDS BAY,3900 Tel: +27 35 901 3440 / 3111 Fax: +27 35 901 3442 / 3480 E-mail: info@rbm.co.za Website: http://www.richardsbayminerals.co.za			
<u>Mine</u>				
1.1	TISAND (PTY) LTD PO Box 401 RICHARDS BAY,3900 Tel: +27 35 901 3111 Fax: +27 35 9013480 Mine code: 863 <u>Farm, District, Province</u> Farm 16317 REM, REM Reserve, Sub 1 LOT K45 13130 LOWER UMFOLOZI KWAZULU-NATAL	Floating dredge and gravity separation of heavy minerals from dune sand; further processing by magnetic and electrostatic techniques.	<u>Rutile sand</u> <u>Zircon</u> <u>Ilmenite sand</u> For smelting in electric furnaces by Richards Bay Iron & Titanium (Pty) Ltd.	RBM <u>Marketing of rutile sand in South Africa</u> MINERAL-LOY CC PO Box 1256 RIVONIA,2128 Tel: +27 11 802 4050 Fax: +27 11 802 4195/6
<u>Plant</u>				
1.2	RICHARDS BAY IRON & TITANIUM (PTY) LTD PO Box 401 3900 RICHARDS BAY Tel :+27 35 901 3111 Fax: +27 35 901 3480	Smelter, - ilmenite from Tisand.	<u>Titania slag</u> <u>High purity pig iron</u> for use in foundries.	RBM

TITANIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Mine</u>			
2.1	NAMAKWA SANDS (A division of Anglo Operations Limited) P O Box 435 7380 VREDENBURG Tel: +27 27 217 3084 Fax: +27 27 216 3055 Mine code: 2915 <u>Farm, District, Province</u> Ptns 1+2 Graauwduinen No. 152 Ptns 1+2 Rietfontein Ext. No. 151 Ptns 1+2+3 Hartebeeste Kom No. 156 Ptns 17+18 Goeraap No.140 Ptn 3 Houtkraal No. 143 VAN RHYNSDORP WESTERN CAPE	Open pit mining of heavy mineral sand at Brand-se-Baai and <u>Rutile</u> preliminary concentration of heavy minerals on site.	<u>Ilmenite</u> <u>Zircon</u> NAMAKWA SANDS (A division of Anglo Operations Limited)
2.1.1	MINERAL SEPARATION PLANT (North of Koekenaap) Tel: +27 27 217 3911 Fax: +27 27 217 3011 <u>Plant</u>	Additional process- ing of primary conc- entrate to produce ilmenite, zircon and rutile at the mineral separation plant north of Koekenaap.	
2.1.2	TITANIUM SLAG SMELTER (West of Saldanah/ Vredenburg) Tel: +27 22 701 3911 Fax: +27 22 701 3075	Smelting of the ilmenite to produce titania slag (85%-86% TiO ₂) at the smelter, 7 km from the Saldanha bay export terminal.	<u>Titania slag</u> <u>low-manganese</u> <u>pig iron</u>

TITANIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
<u>Group</u>			
3.	EXXARO RESOURCES LTD P O Box 9229 PRETORIA,0001 Tel: +27 12 307 5000 Fax: +27 12 323 3400 Website: http://www.exxaro.com		
<u>Mine</u>			
3.1	HILLENDALE MINE Private Bag X20010 EMPANGENI,3880 Tel: +27 35 902 7000 Fax: +27 35 902 7834 Website: http://www.exxaro.com Mine code: 3531 <u>Farm, District, Province</u> Lot 159 Umhlatuze13938, Reserve 10 15830 Rem,Umhlagage 16696, Lot 123 Umhlat Hillendale Mine MTUNZINI KWAZULU-NATAL	Hydraulic mining and gravity separation of heavy minerals from sand. <u>Rutile sand</u> <u>Ilmenite sand</u> <u>Zircon sand</u>	EXXARO LTD
3.1.1	MINERAL SEPARATION PLANT Private Bag X20010 EMPANGENI,3880 Tel: +27 35 902 7000 Fax: +27 35 902 7834	Additional processing of primary concentrate to produce ilmenite, rutile, zircon and leucoxene.	
<u>Plant</u>			
3.2	TITANIUM SLAG SMELTER Private Bag X20010 EMPANGENI,3880 Tel: +27 35 902 7000 Fax: +27 35 902 7834	Smelter <u>Titania slag</u> <u>High purity</u> <u>pig iron</u>	EXXARO LTD
TITANIUM DIOXIDE PRODUCER			
<u>Plant</u>			
4.	TIOXIDE SOUTHERN AFRICA (PTY) LTD	Chemical manu- facturing plant; <u>Titanium pigment</u> 3 grades	TIOXIDE SOUTHERN AFRICA (PTY) LTD

Private Bag X504
 UMBOGINTWINI,4120
 Tel: +27 31 910 3611
 Fax: +27 31 904 2416

high titania slag
 obtained from
 Richards Bay
 Minerals.

from 90%-98% TiO₂

TUNGSTEN

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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TUNGSTEN CARBIDE PRODUCERS

Group

1. **ANGLO OPERATIONS LIMITED**
 PO Box 61587
 MARSHALLTOWN,2107
- Tel: +27 11 638 9111
 Fax: +27 11 638 3558
 Website: <http://www.angloamerican.co.uk>

**BOART LONGYEAR CORPORATE
 HEAD OFFICE**
 PO BOX 784149
 SANTON
 2146

Tel: +27 11 520 9300
 Fax: +27 11 783 2411
 E-mail: infohp@boartlongyear.co.za
 Website: <http://www.boartlongyear.com>

Plant

- 1.1 **BOART LONGYEAR
 HARDMETALPRODUCT**
 Private Bag X3
 SELCOURT,1567
- Powder and cem-
 ented carbide
 plant.
- Cobalt powder
Tungsten powder
Tungsten carbide powder
Ready-to-press mixed
 powders
Wear parts (hard metal)
- BOART LONGYEAR
 HARDMETAL
 PRODUCTS**
- Tel: +27 11 360 4600 / 520 9300
 Fax: +27 11 818 4212 / 783 2411
 E-mail: info@cor.boartlongyear.co.za
 Website: <http://www.boartlongyear.com>

ZINC

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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PRIMARY PRODUCERS

Group

1. **ANGLO OPERATIONS LIMITED**
 PO Box 61587
 MARSHALLTOWN,2107
- Tel: +27 11 638 9111
 Fax: +27 11 638 3558
 Website: <http://www.angloamerican.co.uk>

Mine

- | | | | | |
|-----|--|---|--------------------------------------|-------------------------------------|
| 1.1 | BLACK MOUNTAIN
(A division of Anglo
Operations Limited)
Private Bag X01
AGGENEYS,8893 | Underground
mine; blast
hole and
cut-and-fill
stopes. | <u>Concentrates</u>
Approx 51% Zn | ANGLO OPERATIONS
LIMITED |
|-----|--|---|--------------------------------------|-------------------------------------|

Tel: +27 54 983 9200
 Fax: +27 54 983 9244

Farm, District, Province

Mine code: 195

Farm, District, Province

Aggeneys 56, Koeris 54 PTI, Zuurwater 62 PTN4
 KENHARDT
 NORTHERN CAPE

ZINC

PRODUCER

TYPE OF
OPERATION

PRODUCT

MARKETING

PRIMARY SMELTER

Group

2. **EXXARO RESOURCES LTD**
 PO Box 9229
 PRETORIA,0001
- Tel: +27 12 307 5000
 Fax: +27 12 323 3400
 Website: <http://www.exxaro.com>

Plant

- | | | | | |
|-----|---|---------------------------|---|---------------------------|
| 2.1 | EXXARO BASE METALS LTD
PO Box 218
SPRINGS,1560

Tel: +27 11 812 9500
Fax: +27 11 363 3293
Website : htt://www.exxaro.com | Smelter and re-
finery | <u>Zinc slab</u> sold as:

% Zn (min)
Zn 1..... 99,99
Zn 299,95
Zn 3 99,5
Zn 4 98,5 | EXXARO BASE METALS |
|-----|---|---------------------------|---|---------------------------|

ZINC

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
SEMIS MANUFACTURER			
<u>Group</u>			
3. ZIMCO GROUP PO Box 6645 DUNSWART, 1508 Tel: +27 11 746 5000 Fax: +27 11 421 0027			
<u>Plant</u>			
3.1 ZINCHEM PO Box 6645 DUNSWART, 1508 Tel: +27 11 746 5000 Fax: +27 11 421 0027 E-mail: sales@zinchem.co.za Website: http://www.zinchem.co.za	Smelting, casting and semi-manufacture, raw material feedstock largely scrap.	<u>Alloy ingot</u> <u>Anodes marine</u> <u>Anodes rolled and cast</u> <u>Pellets</u> <u>Sheet</u> <u>Spray wire</u>	ZINCHEM (PTY) LTD

ZINC

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
CHEMICAL PRODUCERS			
<u>Group</u>			
4.	ZIMCO GROUP PO Box 6645 DUNSWART,1508 Tel: +27 11 746 5000 Fax: +27 11 421 0027		
<u>Plant</u>			
4.1	ZINCHEM (PTY) LTD PO Box 6645 DUNSWART,1508 Tel: +27 11 746 5000 Fax: +27 11 421 0027	Pyrometallurgical vaporisation, condensation and oxidation. <u>Zinc dust</u> <u>Zinc ash</u> <u>Zinc oxide</u> <u>Zinc sulphate</u> <u>Other zinc chemicals</u>	ZINCHEM (PTY) LTD
<u>Plants</u>			
5.	BOSAN INDUSTRIAL PO Box 2645 HALFWAYHOUSE,1685 Tel: +27 11 805 1044 / 1066 Fax: +27 11 805 0979 E-mail:info@resource-africa.com	Metal surface cleaning & preparation, coating applications, specific electroplating processes & metal surface finishing processes.	BOSAN INDUSTRIAL
6.	RESOURCE RECOVERY SYSTEMS (PTY) LTD PO Box 2645 HALFWAYHOUSE,1685 Tel: +27 11 805 1066 / 1066 Fax: +27 11 805 0979 E-mail:info@resource-africa.com	Supply engineering services capital plant and equipment associated with process waste stream recovery operations and value addition. Electrowinning processes	RESOURCE RECOVERY SYSTEMS (PTY) LTD

ZIRCON

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS SPECIFICATION	MARKETING
PRIMARY ZIRCON PRODUCER				
<u>Group</u>				
1.	RICHARDS BAY MINERALS PO Box 401 RICHARDS BAY,3900 Tel: +27 35 901 3111 / 3440 Fax: +27 35 901 3480 / 3442 E-mail: info@rbm.co.za Website: http://www.richardsbayminerals.co.za			
<u>Mine</u>				
1.1	TISAND (PTY) LTD PO Box 401 RICHARDS BAY,3900 Tel: +27 35 901 3111/3440 Fax: +27 35 901 3480/3442	Floating dredge and gravity separation of heavy minerals from dune sand; further processing by magnetic & electrostatic techniques.	<u>Zircon</u> Rutile	MINERAL-LOY CC P O Box 1256 RIVONIA,2128 Tel: +27 11 802 4050 Fax: +27 11 802 4195/6
Mine code: 863				
<u>Farm, District, Province</u>				
Farm 16317 REM, REM Reserve, Sub 1 LOT K45 13130 LOWER UMFOLOZI KWAZULU-NATAL				
<u>Group</u>				
2.	ANGLO OPERATIONS LIMITED PO Box 61587			

MARSHALLTOWN,2107

Tel: +27 11 638 9111
 Fax: +27 11 638 3558
 Website: <http://www.angloamerican.co.uk>

Mine

- 2.1 **NAMAKWA SANDS**
 (A division of Anglo
 Operations Limited)
 P O Box 223
 LUTZVILLE,8165
- Open pit mining
 of heavy minerals
 at Brand-se-Baai
 and preliminary
 concentration of
 heavy minerals
 on site.
- Ilmenite
Rutile
Zircon
- NAMAKWA SANDS**
 (A division of Anglo
 Operations Limited)
- Tel: +27 27 217 3084
 Fax: +27 22 217 3055
- Mine code: 2915

ZIRCON

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS SPECIFICATION	MARKETING
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Mine continue
Farm, District, Province
 Graaauwduinen 152
 VREDENDAL
 WESTERN CAPE

Group

3. **EXXARO RESOURCES LTD**
 P O Box 9229
 PRETORIA, 0001
- Tel: +27 12 307 5000
 Fax: +27 12 323 3400
 Website: <http://www.exxaro.com>

Mine

- 3.1 **HILLENDALE MINE**
 Private Bag X20010
 EMPANGENI,3880
- Hydraulic mining
 and gravity separation
 of heavy minerals
 from sand.
- Rutile sand
Ilmenite sand
Zircon sand
- EXXARO LTD**
- Tel: +27 35 902 7000
 Fax: +27 35 902 7834
 Website: <http://www.exxaro.com>
- Mine code: 3531

Farm, District, Province
 Lot 159 Umhlatuze13938, Reserve 10 15830 Rem,Umhlagage 16696, Lot 123 Umhlat
 Hillendale Mine
 MTUNZINI
 KWAZULU-NATAL

ZIRCONIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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ZIRCONIA PRODUCERS

Group

4. **INDUSTRIAL DEVELOPMENT CORPORATION OF SA LTD**
PO Box 784055
SANDTON,2146

Tel: +27 11 269 3000
Fax: +27 11 269 3116
Email: callcentre@idc.co.za
Website: <http://www.idc.co.za>

Mine and Plant

- 4.1 **FOSKOR LTD** PO Box 1 PHALABORWA,1390
Tel: +27 15 789 2000
Fax: +27 15 789 2066
E-mail: zirconia@foskor.co.za
- Concentrator and heavy minerals plant as well as fusion and powder processing plant.
- Fused calcia stabilised and Monoclinic zirconia
FOSKOR LTD
Customised sizing

Mine code: 205

Farm, District, Province

Laaste 24LU, Loole 31 LU, Schettoch 25LU, Wegsteek 30LU
PHALABORWA
LIMPOPO

ZIRCONIUM

PRODUCER	TYPE OF OPERATION	PRODUCT	MARKETING
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ZIRCON MILLING AND PROCESSING

Group

5. **EGGERDING & CO**
PO Box 8224
NL 1005 AE
AMSTERDAM
NETHERLANDS

Plants

- | | | | |
|-----|---|--|---------------------------------|
| 5.1 | EGGERDING (SA) (PTY) LTD
P.O Box 824
RICHARDS BAY,3901 | Custom grinding, crushing, sizing and drying of industrial minerals. | EGGERDING (SA) (PTY) LTD |
|-----|---|--|---------------------------------|

Tel: +27 35 797 4568
Fax: +27 35 797 4550
E-mail: c.eva@eggerding.com
Website: <http://www.eggerding.com>

- | | | | | | |
|-----|--|------------------------|--------------------------------------|--|--------------------------|
| 5.2 | ZETAMIN (PTY) LTD
P O Box 824
RICHARDS BAY,3901 | Processing and Trading | Zetazircon
Superfine
Microfine | d ₅₀ (sedigraph) 1.50
d ₅₀ (sedigraph) 1.70 | ZETAMIN (PTY) LTD |
|-----|--|------------------------|--------------------------------------|--|--------------------------|

Tel: +27 35 797 4568
Fax: +27 35 797 4550

HIGH GRADE ZIRCONIUM OXIDE (ZRO₂) AND ZIRCONIUM DOWNSTREAM PRODUCTSPlant

- | | | | | |
|----|--|------------|--|---|
| 6. | GERATECH ZIRCONIUM BENEFICIATION LTD
Private Bag X3
SUITE 178
PAARDEKRAAL,1752
Tel: +27 11 769 2827
Fax: +27 11 769 1933
E-mail: info@geratech.co.za
Website: http://www.geratech.co.za | Processing | <u>Zirconium Ortosulphate (ZOS)</u>

<u>Zirconium Acetate</u>

<u>Acid Zirconium Sulphate Tetrahydrate (AZST)</u>

<u>Zirconium Basic Sulphate (ZBS)</u>

<u>Chemical Grade Zirconia</u> | GERATECH ZIRCONIUM BENEFICIATION LTD |
|----|--|------------|--|---|

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OTHER USEFUL ADDRESSES

DEPARTMENT OF MINERALS AND ENERGY

HEAD OFFICE

The Director - General
Private Bag X59
0001 Pretoria

www.dme.gov.za

Mineralia Building
234 Visagie Street
Pretoria

Tel: +27 12 317 8000

Fax: +27 12 320 4327

BRANCHES

Mine Health and Safety Inspectorate

www.dme.gov.za/mhs

Energy Branch

www.dme.gov.za/energy

Mineral Policy and Promotion

www.dme.gov.za/minerals

MINERAL REGULATION DIRECTORATES

The Regional Manager - Eastern Cape
Private Bag X6076
6000 Port Elizabeth

Auto and General Towers 6th, 13th, & 14th Floor
190 Govan Mbeki Avenue
Port Elizabeth

Tel: +27 41 585 3862/4/6

Fax: +27 41 585 3881

The Regional Manager - Free State
Private Bag X33
9460 Welkom

DME Building
Cnr. Ryk and De Kaap Streets
Welkom

Tel: +27 57 391 1300

Fax: +27 57 357 6003

The Regional Manager - Gauteng
Private Bag X5
2017 BRAAMFONTEIN

UCS Building
209 Smith & Rissik streets
Braamfontein

Tel: +27 11 358 9700

Fax: +27 11 339 1858 / 6910

The Regional Manager - KwaZulu/Natal
Private Bag X54307
4000 Durban

333 Durban Bay House
Cnr. Smith and Field Streets
Durban

Tel: +27 31 333 9426

Fax: +27 31 301 6950

The Regional Manager - Mpumalanga
Privatebag X7279
1035 Witbank

Receiver of Revenue Building, 3rd Floor
Cnr. Paul Kruger and Botha Streets
Witbank

Tel: +27 13 656 1448

Fax: +27 13 690 3288

The Regional Manager - Northern Cape
Private Bag X6093
8300 Kimberley

Liberty Corner, 1st Floor
29-31 Currey Street
Kimberley

Tel: +27 53 830 0800
Fax: +27 53 832 5631

The Regional Manager – Limpopo
Private Bag X9467
0700 Polokwane

101 Dorp Street
Polokwane

Tel: +27 15 287 4700
Fax: +27 15 287 4729

The Regional Manager - North-West
Private Bag A1
2570 Klerksdorp

Senwes Building No 1
Charl De klerk Street
Klerksdorp

Tel: +27 18 464 1631
Fax: +27 18 462 9036

The Regional Manager - Western Cape
Private Bag X9
8012 Roggebaai

Customs House, 4th Floor
Lower Heerengracht
Foreshore
Cape Town

Tel: +27 21 419 6105
Fax: +27 21 419 6260

The Regional Manager - Rustenburg
P O Box 150
0309 Tlhabane

Tlhabane House
Moumo Street
Tlhabane Complex
Tlhabane
Rustenburg

Tel: +27 14 565 6417
Fax: +27 14 565 6424

The Regional Manager - Springbok
Private Bag X14
8240 Springbok

Andia Building
Voortrekker Street
Springbok

Tel: +27 27 712 2546
Fax: +27 27 712 1959

DEPARTMENT OF TRADE AND INDUSTRY**HEAD OFFICE**

Department of Trade and Industry
Private Bag X84
0001 Pretoria

www.dti.gov.za

DTI Campus – Block E
Cnr. Esselen & Meintjie Streets
Sunnyside, Pretoria

Tel: +27 12 394 3612
Fax: +27 12 394 4612 / 0517

STATE OWNED ENTERPRISES

Council for Geoscience
Private Bag X112
0001 Pretoria

www.geoscience.org.za

280 Pretoria Road
Silverton
Pretoria

Tel: +27 12 841 1911
Fax: +27 12 841 1221

Mintek
Private Bag X3015
2125 Randburg

www.mintek.co.za

200 Malibongwe Drive
Randburg

Tel: +27 11 709 4111
Fax: +27 11 793 2413

NECSA
PO Box 582
0001 Pretoria

www.necsa.co.za

Church Street, West Extension
Pelindaba, Brits Districts
Tel: +27 12 316 4911
Fax: +27 12 316 3111

The Geological Society of South Africa
P O Box 61809
2107 Marshalltown

www.gssa.org.za

Chamber of Mine Building (5th floor), 5th Hollard
Johannesburg.

Tel: +27 11 492 3370
Fax: +27 11

The Industrial Development Corporation of SA Ltd
(IDC)
PO Box 784055
2146 Sandton

www.idc.co.za

19 Fredman Drive
Sandton

Tel: +27 11 269 3000
Fax: +27 11 269 3116

The South African Diamond and Precious Metals Regulator
PO Box 16001
2028 DOORONFONTEIN

www.sadb.co.za

S A Diamond Centre, 5th Floor
225 Corner Main and Philips Street
Johannesburg

Tel: +27 11 334 8980 / 6
Fax: +27 11 334 9001

OTHER MINERAL-RELATED ORGANISATIONS

Chamber of Mines of South Africa P O Box 61809 2107 Marshalltown	www.bullion.org.za	Chamber of Mines Building Cnr. Sauer & Marshall Streets Marshalltown Johannesburg Tel: +27 11 498 7100 Fax: +27 11 834 1884
Copper Development Association (Pty) Ltd PO Box 14785 1422 Wadeville	www.copper.co.za	53 Rendell Road Wadeville Germiston Tel: +27 11 824 3712 Fax: +27 11 824 3120
Metal Merchants Association P O Box 413299 2024 Graighall Park		92 Buckingham Avenue Graighall Park Tel: +27 11 788 9587 Fax: +27 11 788 9587
The Aluminium Federation of South Africa PO Box 423 1600 Isando	www.afsa.org.za	The Birches Riverwoods Office Park Cnr. Johnson Road & Civin Drive Bedfordview Tel: +27 11 453 3339 Fax: +27 11 453 3403
The Institute of Mine Surveyors of SA P O Box 62339 2107 Marshalltown	www.ims.org.za	Chamber of Mines building, Room 509 5 Hollard Street Marshalltown Johannesburg Tel: +27 11 498 7682 Fax: +27 11 498 7681
The South African Institute of Mining and Metallurgy P O Box 61127 2107 Marshalltown	www.saimm.co.za	Chamber of Mines Building, 5 th Floor 5 Hollard Street Marshalltown Johannesburg Tel; +27 11 834 1273 Fax: +27 11 838 5923 / 833 8156