



CERTIFICATE OF ANALYSIS

NO.1244

PRODUCT: POTASSIUM NITRATE FERTILIZER, TECHNICAL GRADE QUALITY - NPC-T

DETAILS OF SHIPMENT:

MV :

LOT #: LON 328

GOLD RIVER – ETA DURBAN 04 OCTOBER 2006

LOADING PORT:

TOCOPILLA / CHILE

DESTINATION:

DURBAN / SOUTH AFRICA

MANUFACTURE DATE:

01/09/2006

EXPIRY DATE:

01/09/2011

PRODUCT IMPORTED IN BULK AND RE-BAGGED

CHEMICAL ANALYSIS:		% W/W	
PURITY	KNO ₃	99.2	%MIN
NITROGEN	(c/N)	13.5	%MIN
CHLORIDE	(c/CL)	0.08	%MAX
POTASSIUM	(c/K ₂ O)	46.3	%MIN
INSOLUBLE		0.005	%MIN
HUMIDITY		0.06	%MIN

CHEMICAL SPECIFICATIONS

SULPHATE	SO ₄	%	0.02
NITRITE	NO ₂	%	n.d.
IRON	Fe	ppm	<5
COPPER	Cu	ppm	<1
CHROMIUM	Cr	ppm	<1
LEAD	Pb	ppm	<5
ARSENIC	As	ppm	<0.03
CADMIUM	Cd	ppm	<0.3
MERCURY	Hg	ppm	<0.02
SELENIUM	Se	ppm	<0.1
INSOLUBLES		%	0.02
MOISTURE		%	0.1
BARON	B	%	nd
CALCIUM	Ca	%	nd
COBALT	Co	%	nd
MAGNESIUM	Mg	%	nd
MANGANESE	Mn	%	nd
MOLYBDENUM	Mo	%	nd
SULPHUR	S	%	nd
ZINC	Zn	%	nd

Sociedad Química y Minera Africa (Pty) Ltd

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Trading as SQM Africa - (Reg. N° 1997/007087/07) - VAT N° 4930171428

Directors: F. Biot (Belgian), P. Stroobants (Belgian), P. Van Coillie (Belgian)





PHYSICAL PROPERTIES

MOLECULAR WEIGHT	101.1
MELTING POINT	333⁰C
SOLUBILITY (in water at 20 ⁰C)	31.6g/100cm³
DENSITY (Bulk)	1.26 ton (metric)/m³
SPECIFIC GRAVITY	2.120
EC (1 g/l at 25⁰C)	1.35mS/cm
SALT index	73.6
Na CONTENT	< 0.2%
PH (1 g/l) Solution	5.3

**SQM AFRICA (PTY) LTD
AGRICULTURAL SALES
SOUTHERN AFRICA**

10 MAY 2007

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