

# Certificate of Analysis

A quality management system registered to the international standard ISO 9001 was used to manufacture and test this material.

Certificate prepared at

**Gracefruit Limited**  
**209 Glasgow Road**  
**Longcroft**  
**Bonnybridge**  
**FK4 1QQ**

## Batch Details

<b>Product Name:</b>	SP INCROQUAT BEHENYL TMS	<b>Date of test:</b>	12.04.2019
MBAL-PA-(MH)		<b>Date of manufacture:</b>	09.04.2019
<b>Product Code:</b>	HA41040/0025/4B2/8	<b>Retest date:</b>	08.04.2021
<b>Batch No:</b>	0001517366		

**Specification:** REVISED 12-AUG-2014

## Quality Control Results

Analytical Test Method No.	Characteristic	Specification Limit		Value	Unit	Status
		Lower	Upper			
	Addendum 00	PASS OR FAIL		Pass	-	P
AU020000	APPEARANCE (FORM) 25°C	PASTILLES		Pass	-	P
AU320000	COLOR (1933 GARDNER)	0.0	1.0	0.1	Gardner	P
AU021000	ODOR	CHARACTERISTIC		Pass	-	P
EU130100	ORIGINAL PH (1% AQUEOUS)	6.0	7.0	6.9		P
EU180100	FREE AMINE (MW=378.3)	0.0	2.0	1.5	%	P
FU070200	MELTING POINT (SLIP)	55	65	62	°C	P
FU5100C0	% ACTIVES (MW=504.4)	24.0	26.0	25.7	%	P

Original pH specified is at time of manufacture. Methosulfate quats will exhibit some drift during storage but will not drift below 4.0. Retest pH is the value at the time of retest, if applicable.

FAILURE TO STORE AT LESS THAN 90°F (32.2°C) CAN CAUSE COAGULATION.

THIS PRODUCT IS OFFERED IN COMPLIANCE WITH THE ROUND TABLE FOR SUSTAINABLE PALM - MASS BALANCE GUIDELINES AUTHORIZED UNDER CERTIFICATE NUMBER BMT-RSPO-000179.

**Batch Status:** Pass

The quality tests on this batch are reported above. The tests carried out are those necessary to demonstrate compliance with our product specification and are not intended to guarantee the product as suitable for any application

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Customer details

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beyond those contained in the specification. We recommend you perform your own quality and or identification checks on receipt

The name printed at the end of this document is an electronic signature.

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