


PRODUKTINFORMATIONEN

CERTIFICATE OF FOOD CONTACT APPROVAL

CERTIFICATE No.: SSC0001/D40	ISSUE DATE: 24th February 2015
PRODUCT CODE: 8220020-G	
PRODUCT NAME: Detectable Small Hand Scoop	
COLOUR: Green.	
DESCRIPTION: MAG-SIG™ detectable small hand scoop. Single mould construction.	

RESULTS SUMMARY

This is to certify that the detectable copolymers used to manufacture the above listed product have been tested in accordance with MAG-SIG™ standards.



Test Result Summary:	Conclusion
European Commission Regulation (EU) No 10/2011	
Finished moulded product: Migration Test	PASS

The migration from the material was less than the maximum permitted by the Regulations.



Test Result Summary:	Conclusion
European Commission Regulation (EU) No 10/2011	
Specific Migration of Metals	PASS



Test Result Summary:	Conclusion
US FDA 21 CFR 177.1520 (Olefin Polymers)	PASS
Polypropylene copolymer	



The raw material used in the manufacturing of this product does not contain silicone.

This certificate is specific to the Harold Moore product shown and referenced above including colour and is strictly issued by Niebling Technische Bürsten GmbH. Alternative Niebling products or colours will require alternative certification. This document can not be used to certify or in any way suggest that any accreditation has been issued to non Niebling products.

MAG-SIG™ - DETECTABLE ASSURANCE

MAG-SIG™ is a set of manufacturing quality standards specifically developed for the moulding of copolymer 'Detectable' forms. The MAG-SIG™ standard is split into 5 vital categories to ensure the finished product is 'fit for purpose', giving distributors and end users confidence and peace of mind.

MAG-SIG™ Detectability - The assurance that detecting equipment can easily be calibrated to maintain processing standards.

Detectable polymers can be achieved by adding a material that has either conductive or magnetic permeable properties. The MAG-SIG™ standard demands that only additives with both of these characteristics can be used. Permeability and conductivity = enhanced detectability.

MAG-SIG™ X-ray - The assurance of density. Detectable additives must sufficiently increase the density of the base polymer to an acceptable level of visibility.

MAG-SIG™ Dispersion - 99.9% full and equal dispersion throughout the moulded form. The detectable additive must be of a nature that avoids clustering, clumping or grouping that induces weakness and unreliable results and failure.

MAG-SIG™ Strength – Detectable products should perform as well as their non-detectable counterpart, in a normal environment. As detectable additives can alter the structural characteristics of a polymer, finished products are tested in relation to intended use. Rigidity, flexibility, impact strength and the avoidance of shattering combine to determine the performance of the product.

MAG-SIG™ Diligence - Confidence in the workplace. Equipment calibration test plaques are available that not only relate to the relevant copolymer used but the specific batch used for your product. All copolymers must carry EU and FDA raw material approval. All finished products must be tested in accordance with European Directive 10/2011/EU. Testing must include not only overall migration but also the specific migration of metals. Specific product certification available to the customer. Continuity, consistency of product and replacement products reduces the need for regular site appraisals.

For more information regarding MAG-SIG™ visit www.mag-sig.com

All testing has been carried out by a UKAS accredited testing laboratory.

OVERALL MIGRATION TESTING



Results:

The materials were tested in accordance with requirements of the Plastic Materials and Articles in Contact with Food Commission regulation (EU) No. 10/2011 following Methods BSEN 1186:2002.

The Regulations require that no plastic material shall be capable of transferring its constituents to food with which it may come into contact in quantities exceeding the appropriate limit. For the material the appropriate limit is 10 mg/dm²

Detectable Product:

Detectable Small Hand Scoop. Product No. 8220020-G

Simulant	Conditions	Migration
3% Acetic Acid	24 Hours at 40°C	2.4 mg/dm ²
95% Ethanol	24 Hours at 40°C	1.6 mg/dm ²
Iso-octane	4 Hours at 20°C	<4 .2mg/dm ²

TestResultSummary:	Conclusion
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SPECIFIC MIGRATION OF METALS TESTING

This test is designed to provide a more comprehensive and realistic level of compliance by ensuring that any metals used within the polymer are safe for use in direct contact with food.

Method:

Sample preparation in 3% acetic acid (w/v) in aqueous solution at 70°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Results:

Detectable Product:

Detectable Small Hand Scoop

Product No. 8220020-G

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Cooper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Zinc	ND	0.5	25
Comment	PASS	-	-

Note: 1. mg/kg = milligram per kilogram of foodstuff in contact with 2. °C = degree Celsius 3. ND = Not Detected.

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U.S FOOD AND DRUG ADMINISTRATION TESTING



Product:

Detectable Small Hand Scoop product No. 8220020-G

Results:

US FDA 21 CFR 177.1520 (Olefin Polymers) Polypropylene copolymer.

Extractable fraction:

With reference to US FDA 21 CFR 177.1520 d (3)(ii). Sample preparation in n-hexane at 50°C for 2 hours.

	Result (o/ow/w)	Reporting limit (o/ow/w)	Reference limit (o/ow/w)
Extractable fraction	3.0	0.1	5.5
Comment	PASS	-	-

Soluble fraction:

With reference to US FDA 21 CFR 177.1520 d (4)(ii). Sample preparation in xylene at 25°C for 2 hours.

	Result (o/ow/w)	Reporting limit (o/ow/w)	Reference limit (o/ow/w)
Soluble fraction	9.2	0.1	30.0
Comment	PASS	-	-

- Note: 1. %(w/w) = percent by weight by weight
 2. ND = Not Detected
 3. °C = degree Celsius

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SILICONES



Declaration of absence Silicone. Detectable Small Hand Scoop:

product No. 8220020-G

On the basis of our knowledge of the manufacturing process and information provided by raw material suppliers. Contains

Polydimethylsiloxane CAS 63148-62-9 ,0,0060%

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