

TEST REPORT N. 26/000344676

date of issue 25/05/2026

Customer ID	0068079/001	Messrs SWIFT SILLIKER (PTY) LTD 16 WARRINGTON RD CLAREMONT 7708 ZA
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Sample information

Acceptance number	26.517507.0002
Delivered by	DHL International on 30/04/2026
Receiving Date	30/04/2026
Place of origin	SWIFT SILLIKER (PTY) LTD 16 WARRINGTON RD CLAREMONT 7708 ZA
Matrix	PAPERBOARD
Sample Description	OMS-26-01718. SATURATED AND AROMATIC HYDROCARBONS PIZZA BOX (CORRUSEAL CORRUGATED GAUTENG (PTY) - 688490

Sampling information

Sampled by	Customer
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ANALYTICAL RESULTS

	Value/ Uncertainty	U.M.	LoQ	LoD	Start/end date of analysis	Op. units	Row
ON SAMPLE AS IT IS							1
HYDROCARBONS					30/04/2026- -20/05/2026	11	2
Met.: MP 2519 rev 3 2024 (ISO20122:2024)							
Total MOSH $\geq$ n-C10 to $\leq$ n-C50 (integrated)	140 $\pm$ 21	mg/kg	10				3
MOSH $\geq$ C10 to $\leq$ C16	< LoQ	mg/kg	10				4
MOSH $\geq$ C10 to $\leq$ C35 (integrated)	100 $\pm$ 15	mg/kg	10				5 *
MOSH $\geq$ C16 to $\leq$ C20	< LoQ	mg/kg	10				6
MOSH $\geq$ C20 to $\leq$ C25	22,0 $\pm$ 6,6	mg/kg	10				7
MOSH $\geq$ C25 to $\leq$ C35	77 $\pm$ 12	mg/kg	10				8
MOSH $\geq$ C35 to $\leq$ C40	17,0 $\pm$ 5,1	mg/kg	10				9
MOSH $\geq$ C40 to $\leq$ C50	14,0 $\pm$ 4,2	mg/kg	10				10
Total MOSH $\geq$ n-C10 to $\leq$ n-C50 (calculated)	130,0 $\pm$ 15,2	mg/kg					11
Total MOAH $\geq$ n-C10 to $\leq$ n-C50 (integrated)	9,1 $\pm$ 2,2	mg/kg	3,0				12
MOAH $\geq$ C10 to $\leq$ C16	< LoQ	mg/kg	3,0				13
MOAH $\geq$ C10 to $\leq$ C35 (integrated)	3,90 $\pm$ 0,94	mg/kg	3,0				14 *
MOAH $\geq$ C16 to $\leq$ C25	< LoQ	mg/kg	3,0				15
MOAH $\geq$ C25 to $\leq$ C35	< LoQ	mg/kg	3,0				16
MOAH $\geq$ C35 to $\leq$ C50	5,2 $\pm$ 1,2	mg/kg	3,0				17
Total MOAH $\geq$ n-C10 to $\leq$ n-C50 (calculated)	5,2 $\pm$ 1,2	mg/kg					18

Operative units

Unit 11 : Via Marradi 41 Prato PO Accreditation ACCREDIA 00051

Information on test methods and/or requirements/specifications

Row (2) - Method: MP 2519 rev 3 2024 (ISO20122:2024) = The analytic technique applied is LC-GC/FID, after sample preparation according to scientific literature by K. Grob, M. Biedermann et al. in the period 2008 - 2013 (quantification by internal standard method). In particular the paper and cardboard samples are extracted with ethanol/hexane at room temperature for 2 hours; the extract is therefore washed with water, and the organic fraction analyzed by LC-GC/FID. A further purification step (epoxidation) is performed in case of presence of MOAH interferents, e.g. squalene. Plastic samples are extracted with hexane at room temperature. Concentration results are calculated by subtraction of sharp peaks overlying mineral oil humps.

The analysis is performed on paper parts for paper and cardboard samples and on plastic parts for plastic samples.

If present, this MOSH fraction can include POSH (Polyolefins Oligomeric Saturated Hydrocarbons) and PAO (Poly Alpha Olefins), chemically included and indistinguishable from MOSH: if POSH and PAO can be subtracted from MOSH pattern, their contribution is not included in the MOSH content and POSH and/or PAO presence is indicated as additional comment. Otherwise, in case POSH and PAO are present and cannot be excluded from MOSH content, their contribution is included in MOSH content and the MOSH result is accompanied by a comment that POSH and/or PAO are present and included in MOSH.

For plastic samples the presence of POSH is due to the nature itself of the sample material and therefore their content is not subtracted from MOSH content."

Aromatic MOAH, if present in the sample, are always associated with saturated MOSH at higher concentrations.

information provided by the client

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Chemical responsible
Dott. Emiliano Castellano Chimico Ordine dei Chimici e dei Fisici della Toscana. N. 1631 - Sez. A
Num. certificato WSREF-84576807156345 emesso dall'ente certificatore ArubaPEC S.p.A. NG CA 3, ArubaPEC S.p.A., IT

- The line marked by a star (*) is not accredited by Accredia, member of MLA.
- If not otherwise specified, the uncertainty is extended and has been calculated with a coverage factor $k=2$ corresponding to a probability interval of about 95%. For parameters whose extended uncertainty is greater than the result, since it is not possible to express a negative concentration, the final result is expressed in square brackets, which mean that the true value is between zero, which is excluded, and the sum of the result with its extended uncertainty.
- LoD is the detection limit and identifies a confidence interval of zero with a probability interval of about 99%. - LoQ is the limit of quantification. "n.d" is not detected and indicates a value inferior to the LoD. "traces (X)" means a value between LoD and LoQ, this value is indicative. "<x" or ">x" indicate inferior or superior to the measurement field of the test. - Unless otherwise specified, sums of parameters are established based on the Lower Bound (L.B.) principle in which only parameters above LOQ are considered. In case all components of a sum are below their respective LOQ, the sum is reported as "<x", where x is the highest LOQ among the analytes involved in the calculation. - Analysis Starting date: date at which the sample is processed by the laboratory. Can include aliquoting and homogenization steps. Analysis End date: date at which the results are approved in LIMS by the laboratory. - In case of alteration of the sample the laboratory declines any responsibility on the results that can be influenced by the deviation in case the customer asks for the execution of the test anyway. - If the sampling is not carried out by the laboratory staff, the results obtained are considered referring to the sample as received and the laboratory declines its responsibility for the results calculated considering the sampling data provided by the Customer. The name and contact information of the Customer are always provided by the Customer. In case of sampling performed by the customer, the sample matrix reported in the test report is considered information provided by the customer.