

SGS Germany GmbH Heidenkampsweg 99 20097 Hamburg

PNZ Produkte GmbH  
Eichstätter- Str. 2 - 4a  
85110 Kipfenberg

**Test Report 6399457**  
Order No. 6623729  
Customer No. 10220155

Katerina Hornikova  
Phone +49 40 30101-698  
Fax +49 40 30101-693  
katerina.hornikova@sgs.com



SGS Germany GmbH  
Heidenkampsweg 99  
20097 Hamburg

Hamburg, 26.06.2023

Your order/project: .  
Your purchase order number: 20292148/2023  
Your purchase order date: 30.05.2023

General Information:	
Sample No.:	230542757
Sample:	Industrie Natur-Öl 301
Date of receipt:	01.06.2023
Testing period (begin / end):	19.06.2023 / 26.06.2023
Quantity:	806g
Packaging:	Plastic can

Test Results:						
Parameter	Method	Lab	Result			
<b>Sensory analysis:</b>						
Appearance	DIN 10964	HH	yellow, turbid, glossy			
Odour	DIN 10964	HH	varnish-like			
Parameter	Method	Lab	Unit	Result	Limit of quantification	Requirements
<b>Constituents:</b>						
Peroxide value	DIN EN ISO 27107	HH	meq O <sub>2</sub> /kg	2,8	0,1	< 20
<b>Minerals/metals:</b>						
Lead	DIN EN 15763, mod.	HH	mg/kg	< 0,015	0,015	< 1
Cadmium	DIN EN 15763, mod.	HH	mg/kg	< 0,010	0,010	< 1
Mercury	DIN EN 15763, mod.	HH	mg/kg	< 0,010	0,010	< 0,1
Arsenic	DIN EN 15763, mod.	HH	mg/kg	< 0,04	0,04	< 0,1

Your order/project: .  
Your purchase order number: 20292148/2023

Test Report 6399457  
Order 6623729 Sample 230542757

Page 2 of 5  
26.06.2023

Sample 230542757	Industrie Natur-Öl 301					
Parameter	Method	Lab	Unit	Result	Limit of quantification	Requirements

PAH						
Benzo(a)anthracene	SOP M 2920, GC/MS	HH	µg/kg	0,9	0,2	
Benzo(c)fluorene	SOP M 2920, GC/MS	HH	µg/kg	< 0,5	0,5	
Chrysene	SOP M 2920, GC/MS	HH	µg/kg	1,0	0,2	
Cyclopenta(c,d)pyrene	SOP M 2920, GC/MS	HH	µg/kg	< 0,2	0,2	
5-Methylchrysene	SOP M 2920, GC/MS	HH	µg/kg	< 0,2	0,2	
Benzo(b)fluoranthene	SOP M 2920, GC/MS	HH	µg/kg	0,8	0,2	
Benzo(k)fluoranthene	SOP M 2920, GC/MS	HH	µg/kg	0,4	0,2	
Benzo(j)fluoranthene	SOP M 2920, GC/MS	HH	µg/kg	0,5	0,2	
Benzo(a)pyrene	SOP M 2920, GC/MS	HH	µg/kg	0,7	0,2	< 2
Indeno(1,2,3-cd)pyrene	SOP M 2920, GC/MS	HH	µg/kg	0,6	0,2	
Dibenzo(ah)anthracene	SOP M 2920, GC/MS	HH	µg/kg	< 0,2	0,2	
Benzo(ghi)perylene	SOP M 2920, GC/MS	HH	µg/kg	0,6	0,2	
Dibenzo(a,l)pyrene	SOP M 2920, GC/MS	HH	µg/kg	< 0,5	0,5	
Dibenzo(a,e)pyrene	SOP M 2920, GC/MS	HH	µg/kg	< 0,5	0,5	
Dibenzo(a,i)pyrene	SOP M 2920, GC/MS	HH	µg/kg	< 0,5	0,5	
Dibenzo(a,h)pyrene	SOP M 2920, GC/MS	HH	µg/kg	< 0,5	0,5	
Sum PAH 4 (Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene), calc.		HH	µg/kg	3,4		< 10
Sum PAH total, calc.		HH	µg/kg	5,5		<25

Organic solvents:						
Benzene	SOP M 1299, HS-GC/MS	HH	mg/kg	0,16	0,03	< 1
Toluene	SOP M 1299, HS-GC/MS	HH	mg/kg	1,10	0,03	< 10
Ethylbenzene	SOP M 1299, HS-GC/MS	HH	mg/kg	0,41	0,03	< 10
m,p-Xylene	SOP M 1299, HS-GC/MS	HH	mg/kg	1,55	0,03	
o-Xylene	SOP M 1299, HS-GC/MS	HH	mg/kg	0,84	0,03	
Sum m,p-Xylene and o-Xylene, calc.		HH	mg/kg	2,39		< 30
Chloroform	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	< 1
Dichloromethane	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	
Trichloroethylene	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	< 1
1,1,1-Trichloroethane	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	< 1
Tetrachloroethylene	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	< 1
Carbon tetrachloride	SOP M 1299, HS-GC/MS	HH	mg/kg	< 0,01	0,01	< 1

Investigations at the laboratory location Hamburg (HH) are carried out in the laboratory of the SGS Germany GmbH.  
Investigations at the laboratory locations Berlin (B2), Freiburg (FR) and Taunusstein (TS) are carried out in laboratories of the SGS INSTITUT FRESENIUS GmbH.  
Non-accredited test methods, if any, are marked as such.

*The laboratory sites of the SGS group Germany according to the abbreviations mentioned above including the corresponding accreditation process numbers are listed at <http://www.institut-fresenius.de/filestore/89/laborstandortkuerzelsgs.pdf>.*

SGS Germany GmbH

**Summary of used test methods:**

DIN 10964	2014-11
DIN EN 15763, mod.	2010-04, Modification: additional Elements for IntStd (In, Sc). Additional elements are measured. extended measurement uncertainty (relative) with p = 95 %, k = 2 (sampling was not taken into account):

	<p>46 %, for Aluminium, determined on food and feed with &lt; 1 mg/kg 16 %, for Aluminium, determined on food and feed with 1-10 mg/kg 8 %, for Aluminium, determined on food and feed with &gt; 10 mg/kg 22 %, for Arsenic, determined on food and feed with &lt; 0,08 mg/kg 16 %, for Arsenic, determined on food and feed with 0,08-15 mg/kg 11 %, for Barium, determined on food and feed with &lt; 1 mg/kg 7 %, for Barium, determined on food and feed with 1-5 mg/kg 4 %, for Barium, determined on food and feed with &gt; 5 mg/kg 24 %, for Cadmium, determined on food and feed with &lt; 1,1 mg/kg 55 %, for Chromium, determined on food and feed with &lt; 1 mg/kg 20 %, for Chromium, determined on food and feed with &gt; 1 mg/kg 11 %, for Cobalt, determined on food and feed with &lt; 0,1 mg/kg 8 %, for Cobalt, determined on food and feed with 0,1-1 mg/kg 17 %, for Copper, determined on food and feed with &lt; 16 mg/kg 5 %, for Copper, determined on food and feed with &gt; 16 mg/kg 58 %, for Iron, determined on food and feed with &lt; 0,2 mg/kg 14 %, for Iron, determined on food and feed with 0,2-16,2 mg/kg 7 %, for Iron, determined on food and feed with &gt; 16,2 mg/kg 24 %, for Lead, determined on food and feed with &lt; 1,5 mg/kg 59 %, for Lithium, determined on food and feed with &lt; 0,2 mg/kg 47 %, for Lithium, determined on food and feed with &gt; 0,2 mg/kg 18 %, for Manganese, determined on food and feed with &lt; 1 mg/kg 7 %, for Manganese, determined on food and feed with 1-10 mg/kg 5 %, for Manganese, determined on food and feed with &gt; 10 mg/kg 25 %, for Mercury, determined on food and feed with &lt; 0,25 mg/kg 12 %, for Molybdenum, determined on food and feed with &lt; 1 mg/kg 11 %, for Molybdenum, determined on food and feed with 1-10 mg/kg 6 %, for Molybdenum, determined on food and feed with &gt; 10 mg/kg 21 %, for Nickel, determined on food and feed with &lt; 0,1 mg/kg 8 %, for Nickel, determined on food and feed with 0,1-0,5 mg/kg 5 %, for Nickel, determined on food and feed with &gt; 0,5 mg/kg 38 %, für Phosphorus, determined on stearin with &lt; 0,1 mg/kg. 20 %, für Phosphorus, determined on vegetable oil with 0,5 mg/kg. 19 %, for Selenium, determined on food and feed with &lt; 0,1 mg/kg 5 %, for Selenium, determined on food and feed with &gt; 0,1 mg/kg 6 %, for Silver, determined on sheimp meal with 0,58 mg/kg 8 %, for Thallium, determined on chocolate with 0,01 mg/kg 10 %, for Vanadium, determined on food and feed with &lt; 0,3 mg/kg 4 %, for Vanadium, determined on food and feed with &gt; 0,3 mg/kg 20 %, for Zinc, determined on food and feed with &lt; 4 mg/kg 16 %, for Zinc, determined on food and feed with 4-72 mg/kg The sample-specific measurement uncertainty was not determined and can deviate.</p>
DIN EN ISO 27107	<p>2010-08 Outside accreditation in the case of milk and milk products (or fats derived from milk and milk products) and lecithins as well as fats with a peroxide value of &gt;30 meq O<sub>2</sub>/kg, as these are excluded from the scope of the standard. Result related to fat. Samples which are not fat or oil are first obtained by cold extraction. Extended measurement uncertainty (relative) with p = 95 %, k = 2 (sampling was not taken into account): 46%; at a level of &lt; 1 meqO<sub>2</sub>/kg 33%; at a level of 1-15 meqO<sub>2</sub>/kg The sample-specific measurement uncertainty was not determined and can deviate.</p>
SOP M 1299, HS-GC/MS	<p>2023-03 Given LOQ above represents the limit of reporting. extended measurement uncertainty (relative) with p = 95 %, k = 2 (sampling was not taken into account):</p>

	<p>25 % for Dichlormethane, determined on endowed cooking oil with 0,16 mg/kg 20 % for Chloroform, determined on endowed cooking oil with 0,19 mg/kg 15 % for the other mentioned readily volatile chlorinated hydrocarbons, determined on endowed cooking oil with 0,006-0,23 mg/kg 25 % for Toluene, determined on endowed cooking oil with 0,13 mg/kg 10 % for the other mentioned aromates, determined on endowed cooking oil with 0,13-0,26 mg/kg The sample-specific measurement uncertainty was not determined and can deviate.</p>
SOP M 1299, HS-GC/MS	<p>2023-03 Given LOQ above represents the limit of reporting. extended measurement uncertainty (relative) with <math>p = 95 \%</math>, <math>k = 2</math> (sampling was not taken into account):</p> <p>25 % for Dichlormethane, determined on endowed cooking oil with 0,16 mg/kg 20 % for Chloroform, determined on endowed cooking oil with 0,19 mg/kg 15 % for the other mentioned readily volatile chlorinated hydrocarbons, determined on endowed cooking oil with 0,006-0,23 mg/kg 25 % for Toluene, determined on endowed cooking oil with 0,13 mg/kg 10 % for the other mentioned aromates, determined on endowed cooking oil with 0,13-0,26 mg/kg The sample-specific measurement uncertainty was not determined and can deviate.</p>
SOP M 2920, GC/MS	<p>2020-02 extended measurement uncertainty (relative) with <math>p = 95 \%</math>, <math>k = 2</math> (sampling was not taken into account): 40%, determined on cooking oil with 0,5-4,2 <math>\mu\text{g}/\text{kg}</math> The sample-specific measurement uncertainty was not determined and can deviate.</p>

\*\*\* End of test report \*\*\*

This document is issued by the Company subject to its General Conditions of Service ([www.sgsgroup.de/agb](http://www.sgsgroup.de/agb)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. This document is an original. If the document is submitted digitally, it is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its client and this document does not exonerate parties to a transaction from exercising all their rights and under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.  
Note: The sample(s) to which the findings recorded herein (the "findings") relate was (were) probably drawn and / or provided by the client or by a third party acting at the client's direction. In this case the findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.