TEST REPORT

Applicant: GOODBIRDS LIMITED
21 COMMERCE CRESCENT
ISLINGTON CHRISTCHURCH 8042
NEW ZEALAND

Attn: HANK FENG

Number: HKGH02942289

Date: Nov 30, 2022

Sample and Information provided by customer	:	
Item Name	:	**Noopii Nappies**
Batch No.	:	**Batch No.: HH060422MNA**
Quantity	:	12 bags
Packaging Provided	:	Yes
Manufacturer	:	Fujian Hanhe Sanitary Products Ltd
Buyer	:	Goodbirds Limited
Country of Origin	:	China
Market	:	New Zealand

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For and on behalf of :
Intertek Testing Services HK Ltd.

Cindy I.K. Chan
Vice President

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

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Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

	Requirement	Result
(1)	REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment (EC) no. 552/2009 and (EU) no. 2096/2020 - Azocolourants content ∞	Pass
(2)	Document and Information review	See comment enclosed
(3)	Carcinogenic dyes	See details enclosed
(4)	Allergenic disperse dyes	See details enclosed
(5)	ISO 14184-1 :2011 - Formaldehyde content	See details enclosed
(6)	Pentachlorophenol (PCP) content	See details enclosed
(7)	Tetrachlorophenol (TeCP) content	See details enclosed
(8)	Trichlorophenol (TriCP) Content	See details enclosed
(9)	ISO 11948-1:1996 Urine-absorbing aids - Part 1 : Whole-product testing	See details enclosed
(10)	Chlorine Content of Water Extract	See details enclosed

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Decision Rule(s):
When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. https://intertekhk.grd.by/decision-rule-doc..
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.
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Intertek Testing Services Hong Kong Limited
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(1) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm) (1)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N

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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)	
			(1)	(2/3)
1	4-Aminodiphenyl	92-67-1	N	N
2	Benzidine	92-87-5	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N
4	2-Naphthylamine	91-59-8	N	N
5	o-Aminoazotoluene	97-56-3	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N
7	p-Chloroaniline	106-47-8	N	N
8	2,4-Diaminoanisole	615-05-4	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N
14	p-Cresidine	120-71-8	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N
16	4,4'-Oxydianiline	101-80-4	N	N
17	4,4'-Thiodianiline	139-65-1	N	N
18	o-Toluidine	95-53-4	N	N
19	2,4-Toluylenediamine	95-80-7	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N
21	o-Anisidine	90-04-0	N	N
22	p-Aminoazobenzene	60-09-3	N	N

N = Not detected
Detection limit = 5 ppm
Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg

- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
- The test component with p-aminoazobenzene less than detection limit was tested by EN ISO 14362-1 : 2017 for textile material / EN ISO 17234-1: 2015 for leather material.

Method T : Direct buffer extraction as per EN ISO 14362-1 : 2017 Section 10.2
Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

Tested Components:

(1) White non-woven fabric with black printing (backsheet of nappies).
(2) White non-woven fabric (lining of nappies).
(3) White stuffing material (nappies) (internal).

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Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

Date sample received : Nov 04, 2022
Test Period : Nov 04, 2022 to Nov 10, 2022

(2) Document and Information review

Below document or information was provided by client for review:
1. Specification sheet with material information of nappy;
2. Production process information of nappy;
3. Safety data sheet of glue

Comment:
Based on the review of the provided information, there was no indication of latex material, lotion or fragrance being used or introduced into the product.

Date information received : Nov 07, 2022 and Nov 09, 2022
Review period : Nov 07, 2022 to Nov 16, 2022

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(3) Carcinogenic Dyes

Test Method : As per DIN 54231, by High Performance Liquid Chromatographic (HPLC) analysis.

Compounds	Result (ppm)	
	(1)	(2/3)
Disperse Blue 1	<15	<15
Basic Red 9	<15	<15
Acid Red 26	<15	<15
Disperse Yellow 3	<15	<15
Direct Red 28	<15	<15
Direct Blue 6	<15	<15
Direct Black 38	<15	<15
Disperse Orange 11	<15	<15
Basic Violet 14	<15	<15

Detection limit = 15 ppm

ppm = parts per million = mg/kg

Tested Components:

(1) White non-woven fabric with black printing (backsheet of nappies).
(2) White non-woven fabric (lining of nappies).
(3) White stuffing material (nappies) (internal).

Date sample received : Nov 04, 2022
Test Period : Nov 04, 2022 to Nov 11, 2022

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(4) Allergenic Disperse Dyes

Test Method : As per DIN 54231, by Liquid Chromatography – Mass Spectrometric (LC-MS) analysis.

Compounds	Result (ppm)	
	(1)	(2/3)
Disperse Blue 1	<15	<15
Disperse Blue 3	<15	<15
Disperse Blue 7	<15	<15
Disperse Blue 26	<15	<15
Disperse Blue 35	<15	<15
Disperse Blue 102	<15	<15
Disperse Blue 106	<15	<15
Disperse Blue 124	<15	<15
Disperse Orange 1	<15	<15
Disperse Orange 3	<15	<15
Disperse Orange 37/76	<15	<15
Disperse Orange 149	<15	<15
Disperse Red 1	<15	<15
Disperse Red 11	<15	<15
Disperse Red 17	<15	<15
Disperse Yellow 1	<15	<15
Disperse Yellow 3	<15	<15
Disperse Yellow 9	<15	<15
Disperse Yellow 23	<15	<15
Disperse Yellow 39	<15	<15
Disperse Yellow 49	<15	<15
Disperse Brown 1	<15	<15

Detection limit = 15 ppm

ppm = parts per million = mg/kg

Tested Components:

(1) White non-woven fabric with black printing (backsheet of nappies).
(2) White non-woven fabric (lining of nappies).
(3) White stuffing material (nappies) (internal).

Date sample received : Nov 04, 2022
Test Period : Nov 04, 2022 to Nov 11, 2022

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(5) Free Formaldehyde Content

Test Standard : ISO 14184-1:2011

Tested Component	Result in ppm
(1/2/3)	ND

ND = Not Detected
Detection limit = 5 ppm

ppm = parts per million = mg/kg

Sample received condition : Stored in own packaging

Tested Components:

(1) White non-woven fabric with black printing (backsheet of nappies).
(2) White non-woven fabric (lining of nappies).
(3) White stuffing material (nappies) (internal).

Date sample received : Nov 04, 2022
Test Period : Nov 04, 2022 to Nov 10, 2022

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(6) Pentachlorophenol (PCP) Content

Test Standard : With reference to BVL B 82.02-8:2001 for textiles, BS EN ISO 17070:2015 for leather, PD CEN/TR 14823:2003 for wood, paper and paper board, and followed by Gas Chromatographic - Mass Spectrometry (GC-MS) analysis

Tested Component	Result in ppm
(1)	<0.5
(2/3)	<0.5

ppm = parts per million = mg/kg

Tested Components:

(1) White non-woven fabric with black printing (backsheet of nappies).
(2) White non-woven fabric (lining of nappies).
(3) White stuffing material (nappies) (internal).

Date sample received : Nov 04, 2022
Test Period : Nov 04, 2022 to Nov 11, 2022

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(7) Tetrachlorophenols (TeCP) Content

Test Standard : With reference to BVL B 82.02-8:2001 for textiles, BS EN ISO 17070:2015 for leather, PD CEN/TR 14823:2003 for wood, paper and paper board, and followed by Gas Chromatographic - Mass Spectrometry (GC-MS) analysis

Compound	Result (ppm)	
	(1)	(2/3)
Tetrachlorophenols(TeCP) (Sum of all isomers)	<0.05	<0.05

Remark :
ppm = parts per million = mg/kg

Tested Components :

(1) White non-woven fabric with black printing (backsheet of nappies) .
(2) White non-woven fabric (lining of nappies) .
(3) White stuffing material (nappies) (internal) .

Date sample received : Nov 04, 2022
Testing period : Nov 04, 2022 to Nov 11, 2022

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(8) Trichlorophenol (TriCP) Content

Test method: With reference to BVL B 82.02-8:2001 for textiles, BS EN ISO 17070:2015 for leather, PD CEN/TR 14823:2003 for wood, paper and paper board, and followed by Gas Chromatographic - Mass Spectrometry (GC-MS) analysis

Compound	Result (ppm)	
	(1)	(2/3)
Trichlorophenols(TriCP) (Sum of all isomers)	<0.05	<0.05

Remark :
ppm = parts per million = mg/kg

Tested Components :

(1) White non-woven fabric with black printing (backsheet of nappies) .
(2) White non-woven fabric (lining of nappies) .
(3) White stuffing material (nappies) (internal) .

Date sample received : Nov 04, 2022
Testing period : Nov 04, 2022 to Nov 11, 2022

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(9) Performance test of urine-absorbing aids

Test Standard : ISO 11948-1:1996 Urine-absorbing aids - Part 1 : Whole-product testing

Test procedure :
1. The submitted sample was unfolded and conditioned in an atmosphere of 23°C and 50% relative humidity for 24h.
2. The initial weight of the sample was measured and recorded.
3. The sample was tied on a drainage screen and then immersed to a reservoir which contained test liquid (NaCl with concentration 9g/l) with a depth of 100mm.
4. The sample was soaked for 30 minutes and then the drainage screen with the sample were raised up from the reservoir for 5 minutes in order to allow excess test liquid to drain back under gravity.
5. The weight of sample after absorption was measured and recorded and the absorption capacity was calculated.

Number of samples tested : Five (5) pieces.

Result :

Test data :

Specimen	Initial Weight (g)	After Absorption (g)	Absorption capacity (g)
1	35.7	780.7	745.0
2	34.9	784.6	749.7
3	35.3	782.3	747.0
4	36.1	838.5	802.4
5	36.9	793.0	756.1
Average	35.8	795.8	760.0
Standard Deviation	0.8	24.3	24.0

Date sample received : Nov 04, 2022
Testing period : Nov 04, 2022 to Nov 14, 2022

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(10) Chlorine Content of Water Extract

Test Method: DPD Colorimetric method.

Preparation of test article:
2g inner layer of submitted sample was extracted by 100mL water for 2 hours. Chlorine content of water extract was analysed after condition.

Result : Not detected
Detection limit: 0.2 mg/L

Date sample received : Nov 04, 2022Nov 04, 2022
Testing period : Nov 04, 2022Nov 04, 2022 to Nov 14, 2022

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End of report

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Fax +852 2786 1903
intertek.com.hk