

Report No.: MAN:HL:8480003173 DATE: 17th June, 2017

J D JONES AND CO PRIVATE LIMITED

9B DR. MARTIN LUTHER KING SARANI, (WOOD STREET) 2nd FLOOR

KOLKATA-700016

INDIA

CONTACT PERSON: MR. RAJIB ROY

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:

SAMPLE DESCRIPTION GLAND PACKING

COLOUR YELLOW

STYLE NO. PACMAAN NA 747

SAMPLE RECD ON 27/05/2017

TEST PERFORMING DATE 30/05/2017 TO 17/06/2017

RESULT SUMMARY

| TESTS NAME | COMMENTS | | |
|---|-------------|--|--|
| 1.Testing as per Commission Regulation (EU) No 10/2011 of 14 January 2011 and hence Article 3 of European Regulation No. 1935/2004. (As per client's request) | | | |
| a) Overall Migration | Pass | | |
| b) Specific Migration of Heavy Metals | Pass | | |
| 2. Polycyclic Aromatic Hydrocarbon (PAH) | See results | | |
| 3.Sensorial examination odour and taste test | Pass | | |

Per Pro SGS India Pvt Ltd.

Kapil Patil Asst. Manager

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

JOE No.:1748801717 Page 1 of 5 Control No.:8485003529

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Test Results:

1. Testing as per Commission Regulation (EU) No 10/2011:

a) Overall Migration:

Test Method: With reference to EN 1186

| Simulant Used | Test Condition | Result(mg/dm²) | Permissible Limit(mg/dm²) |
|-----------------|-----------------|----------------|---------------------------|
| Distilled Water | 10 Days at 40 ℃ | 5.5 | 10 |
| Comment | | PASS | |

Sample Description: GLAND PACKING

1. mg/dm² = milligram per square decimeter.

2. °C = degree Celsius, < = less than

3. Test condition & simulant were specified by client

4. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

5. Testing has been performed as per the Client's request.

b) Specific Migration of Heavy Metals:

Test Method: With reference to EN 13130-1:2004. Analysis was performed by ICP-OES.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 10 Days at 60 ℃

| 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 | 0.01 | 0.05 |
| Specific Migration of Copper | 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 | | |

Sample Description: GLAND PACKING

Note:

- 1. mg/kg = milligram per kilograms
- 2. °C = degree Celsius, < = less than
- 3. MDL = Method Detection Limit, ND=Not Detected(<MDL)
- 4. Test condition & simulant were specified by client
- 5. Permissible Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.
- 6. Testing has been performed as per the Client's request

JOE No.: 1748801717 Page 2 of 5 Control No.:8485003529

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2. POLYCYCLIC AROMATIC HYDROCARBON (PAH):

Test Method: With reference to AFPS GS 2014:01 PAK. Analysis was conducted by Gas Chromatography- Mass Spectrometry.

| Test Item | CAS Number | RESULTS (mg/kg) | Reporting Limit (mg/kg) |
|-------------------------------|------------|---------------------------|----------------------------|
| Naphthalene (NAP) | 91-20-3 | ND | |
| Acenaphthylene (ANY) | 208-96-8 | ND | |
| Acenaphthene (ANA) | 83-32-9 | ND | |
| Fluorene (FLU) | 86-73-7 | ND | |
| Phenanthrene (PHE) | 85-01-8 | ND | |
| Anthracene (ANT) | 120-12-7 | ND | |
| Fluoranthene (FLT) | 206-44-0 | ND | |
| Pyrene (PYR) | 129-00-0 | ND | |
| Benzo(a)anthracene (BaA) | 56-55-3 | ND | - " |
| Chrysene (CHR) | 218-01-9 | ND | 5 mg/kg |
| Benzo(b)fluoranthene (BbF) | 205-99-2 | ND | |
| Benzo(j)fluoranthene(BjF) | 205-82-3 | ND | |
| Benzo(k)fluoranthene (BkF) | 207-08-9 | ND | |
| Benzo(a)pyrene (BaP) | 50-32-8 | ND | |
| Indeno(1,2,3-c,d)pyrene (IPY) | 193-39-5 | ND | |
| Dibenzo(a,h)anthracene (DBA) | 53-70-3 | ND | |
| Benzo(g,h,i)perylene (BPE) | 191-24-2 | ND | |
| Benzo(e)pyrene(BeP) | 192-97-2 | ND | |
| Sum of 18 PAHs | | ND | |
| Comment | | See GS PAH Requirement | |

Tested Sample Description: GLAND PACKING

Page 3 of 5 JOE No.: 1748801717 Control No.:8485003529

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AfPS (German commission for Product Safety): GS PAHs requirements

| | Category 1 | Category 2 | | Category 3 | | |
|------------------------------------|---|--|--|-----------------------|---|--|
| Polycyclic Aromatic Hydrocarbon | Materials intended to be placed in the mouth or toys with intended prolonged skin contact | Category 1, w skin contact 30sec | Materials not falling under Category 1, with foreseeable skin contact longer than 30seconds (long term skin or frequent contact) | | Materials not falling under Category 1 or 2, with foreseeable skin contact less than 30 seconds (short-term skin contact) | |
| | (> 30 seconds) (mg/kg) | Toys (TSD) (mg/kg) | Other products according to ProdSG (mg/kg) | Toys (TSD) (mg/kg) | Other products according to ProdSG (mg/kg) | |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Dibenzo[a,h]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[b]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[j]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Chrysene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Benzo[g,h,i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Ideno[1,2,3-cd]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 | |
| Acenaphthylene | | | | | | |
| Acenaphthene | | | | | | |
| Anthracene | 00-100-100-00-0 | | | | | |
| Fluorene | < 1 (sum) | < 5 (sum) | < 10 (sum) | < 20 (sum) | < 50 (sum) | |
| Fluoranthene | | | | | | |
| Phenanthrene | | | | | | |
| Pyrene | | | | | | |
| Naphthalene | < 1 | < 2 | < 2 | < 10 | < 10 | |
| Sum of 18 PAHs | < 1 | < 5 | < 10 | < 20 | < 50 | |

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected 2.
- Testing has been subcontracted to SGS approved lab. 3.

Page 4 of 5 JOE No.: 1748801717 Control No.:8485003529

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3. Sensorial examination odour and taste test

Test Requested: In accordance with French Decret, French Decret 2007-766, French recommendation DGCCRF and Regulation (EC) No 1935/2004 of the European parlianment and of the Council of 27 October 2004.

Test Method: With reference to DIN 10955:1983 (2004)

Test media: Distilled water

No.of panelist: 6

| Test Item(s) | <u>Limit</u> | <u>Result</u> |
|---|--------------|---------------|
| Test time (hr(s)) | - | 240 |
| Temperature(°C) | - | 60 |
| Sensorial examination odour (Point scale) | 2.5 | 2 |
| Sensorial examination taste (Point scale) | 2.5 | 2 |
| Conclusion | | PASS |

SAMPLE DESCRIPTION: GLAND PACKING

Notes:

Scale evaluation:

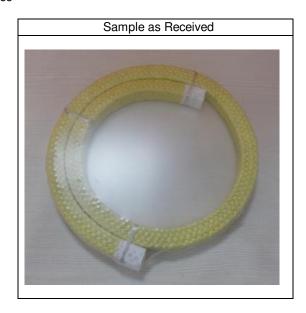
0 - no perceptible difference

1 – just perceptible difference

2 - slight difference

3 - marked difference

4 - strong difference



*****End of Report****

JOE No.: 1748801717 Page 5 of 5 Control No.:8485003529

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