



TESTING OF MURFITTS SBR TO EN 71 SAFETY OF TOYS

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| CLIENT | Murfitts Industries Ltd |
| CLIENT ADDRESS | Station Road, Lakenheath, Suffolk IP27 9AD United Kingdom |
| CLIENT CONTACT | Luke Edwards |

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|---------------|---|---------------------------------------|
| REPORT NUMBER | LSUK.15-0825 | |
| REPORTED BY |  | James Blackburn Technical Director |
| APPROVED BY |  | Dr Colin Young Managing Director |

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| SUMMARY OF REPORT / FINDINGS | <p>Testing of Murfitts Industries SBR has been undertaken in accordance with EN 71 Safety of Toys</p> <p>The material was found to meet the requirements of EN 71-3.</p> |
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| <p>SCOPE OF TESTING</p> | <p>Determination of migration of certain elements in accordance with EN 71-3:2013+A1:2014</p> |
| <p>TEST PROCEDURE/STANDARDS</p> | <p>EN 71-3:2013+A1:2014 Migration of Certain Elements</p> |
| <p>PRODUCT DETAILS / DESCRIPTION</p> | <p>A sample of SBR granulate supplied by Murfitts Industries Ltd.</p> |
| <p>TEST CONDITIONS</p> | <p>The test samples were tested at 23 ± 2 °C and 50 ± 10 % relative humidity and conditioned for a minimum of 24 hours prior to testing commencement.</p> |

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| <p>Date</p> | <p>08/09/2015</p> | |
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TEST RESULTS EN71-3 MIGRATION OF CERTAIN ELEMENTS

| Sample | Elements (see table below for limits) | | | | | | | | | | | | | | | | | | | | Result |
|--------------|---------------------------------------|------|------|-----|------|------|------|------|--------|-----|------|------|-----|------|------|------|-----|------|-----|------|--------|
| Murfitts SBR | 25.7 | <0.5 | <0.6 | 2.6 | 11.5 | <0.5 | <0.5 | <0.5 | <0.004 | 0.7 | 39.2 | <0.5 | 2.6 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | 491 | Pass | |

| Element | Migration limit | | |
|----------------|---------------------|----------------------|-----------------------|
| | Category I mg/kg | Category II mg/kg | Category III mg/kg |
| Aluminium | 5 625 | 1 406 | 70 000 |
| Antimony | 45 | 11,3 | 560 |
| Arsenic | 3,8 | 0,9 | 47 |
| Barium | 1 500 | 375 | 18 750 |
| Boron | 1 200 | 300 | 15 000 |
| Cadmium | 1,3 | 0,3 | 17 |
| Chromium (III) | 37,5 | 9,4 | 460 |
| Chromium (VI) | 0,02 | 0,005 | 0,2 |
| Cobalt | 10,5 | 2,6 | 130 |
| Copper | 622,5 | 156 | 7 700 |
| Lead | 13,5 | 3,4 | 160 |
| Manganese | 1 200 | 300 | 15 000 |
| Mercury | 7,5 | 1,9 | 94 |
| Nickel | 75 | 18,8 | 930 |
| Selenium | 37,5 | 9,4 | 460 |
| Strontium | 4 500 | 1 125 | 56 000 |
| Tin | 15 000 | 3 750 | 180 000 |
| Organic tin | 0,9 | 0,2 | 12 |
| Zinc | 3 750 | 938 | 46 000 |

CONCLUSIONS

The submitted sample complied with the requirements of
EN 71-3:2013+A1:2014 Migration of certain elements

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