



TEST REPORT

Toxicological analysis on infill material for artificial turf fields

Tests performed according to EPA 6020 and EPA 7471B test method (CAM 17 testing)

Report number **R17503CAN-A1**

Product **TruPlay 57 EPDM – Florida Gator Blue**
TTII – Target Technologies International Inc.

Client **Nadia Minato,**
Target Technologies International Inc., 8535 Eastlake Drive, Burnaby, BC V5A 4T7

Date **January 15th, 2018**

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INFORMATION

Product tested	Infill material for artificial turf system			
Product name	TruPlay 57 EPDM – Florida Gator Blue			
Type of elastomer declared	EPDM			
Color	Blue			
Manufacturer	Target Technologies International Inc			
Sample number	CAN002885			
Date of reception	January 5 th , 2018			
Date of tests	January 2018			
Temperature (°C)	Min	22	Max	24
Humidity (%)	Min	49	Max	51



General view



Microscopic view

TEST PROGRAM

The submitted sample received was digested and subsequently tested for the presence and quantification of the listed heavy metals via ICP Scan. Mercury was determined by method 7471B. CAM 117 testing is normally performed on waste stream matter that can be in liquid or solid form. The method was modified to examine virgin EPDM. Method 6020 describes the multi-elemental determination of analytes by ICP-MS in environmental samples. The method measures ions produced by a radio-frequency inductively coupled plasma. Analyte species originating in a liquid are nebulized and the resulting aerosol is transported by argon gas into the plasma torch. The ions produced by high temperatures are entrained in the plasma gas and introduced, by means of an interface, into a mass spectrometer. The ions produced in the plasma are sorted according to their mass-to-charge ratios and quantified with a channel electron multiplier. The lowest detection limit is 1.0 mg/kg.

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RESULTS

Element	Units	Test method	Limits - California Code Of Regulations - §66261.24	Results	Pass/Fail
Arsenic	mg/kg	EPA 6020	< 500	< 1.0	Pass
Barium	mg/kg	EPA 6020	< 10 000	< 1.0	Pass
Cadmium	mg/kg	EPA 6020	< 100	< 1.0	Pass
Chromium	mg/kg	EPA 6020	< 500	13.0	Pass
Lead	mg/kg	EPA 6020	< 1 000	< 1.0	Pass
Selenium	mg/kg	EPA 6020	< 100	< 1.0	Pass
Silver	mg/kg	EPA 6020	< 500	< 1.0	Pass
Mercury	mg/kg	EPA 7471B	< 20	< 1.0	Pass
Antimony	mg/kg	EPA 6020	< 500	< 1.0	Pass
Beryllium	mg/kg	EPA 6020	< 75	< 1.0	Pass
Cobalt	mg/kg	EPA 6020	< 8 000	< 1.0	Pass
Copper	mg/kg	EPA 6020	< 2 500	119.0	Pass
Zinc	mg/kg	EPA 6020	< 5 000	6.0	Pass
Molybdenum	mg/kg	EPA 6020	< 3 500	< 1.0	Pass
Nickel	mg/kg	EPA 6020	< 2 000	53.0	Pass
Thallium	mg/kg	EPA 6020	< 700	< 1.0	Pass
Vanadium	mg/kg	EPA 6020	< 2 400	< 1.0	Pass

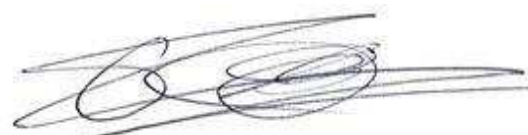
CONCLUSION

The analysis of infill material from sample **CAN002885** (*TruPlay 57 EPDM – Florida Gator Blue*) shows concentrations below the limits listed in California Code of Regulations §66261.24 – Characteristic of Toxicity.

REPORTED BY



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