

# **TEST REPORT**

## Laboratory tests on an infill material for artificial turf system

Tests performed according to the standards listed in the quote Q21413CAN

Report Number	R21413CAN-D2 - PLAYSAFE - Toxicology

Product

TTII PLAYSAFE 65 COLOR-COATED EPDM **Target Technologies International** 

Client

John B. Giraud,

Target Technologies International Inc. 8535 Eastlake Drive, Burnaby BC V5A 4T7

Date December 10<sup>th</sup>, 2021

This report contains 3 pages in total. Reproduction of this report is authorized only in its entire form. Results reported are valid only for the products tested. To declare the conformity (or not), the uncertainty of the results was not taken into account. Detailed results are available on request.

LABOSPORT, THE WORLD LEADING SPORTS SURFACES EXPERT

LABOSPORT CANADA • contact@labosport.com • (514) 277–9111 5661 Rue De Lanaudière • Montréal • Québec • H2G 3A5 • Canada

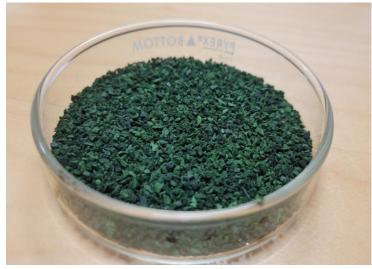
www.labosport.com

in

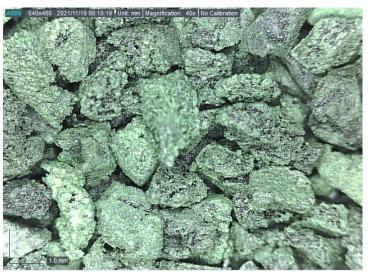


#### **INFORMATION**

Product description	Performance infill for synthetic turf system			
Product name	TTII PLAYSAFE 65 COLOR-COATED EPDM			
Product type	EPDM			
Sample Number	CAN004242			
Date of reception	October 2021			
Date of tests	November 2021			
Temperature	Min	22°C	Мах	24°C
Humidity	Min	49 %	Мах	51 %



**General View** 



**Microscopic View** 



#### **RESULTS**

Toxicological analysis of heavy metals by leachate – DIN 18035-7:

Parameters	Units	Test method	Results	Requirements	Pass/Fail
Lead (Pb)	mg/L	DIN 18035-7	< 0.005	≤ 0.040	Pass
Cadmium (Cd)	mg/L	DIN 18035-7	< 0.001	≤ 0.005	Pass
Total Chromium (Cr)	mg/L	DIN 18035-7	0.003	≤ 0.050	Pass
Tin (Sn)	mg/L	DIN 18035-7	< 0.005	≤ 0.050	Pass
Chromium (Cr VI)	mg/L	DIN 18035-7	< 0.008	≤ 0.008	Pass
Mercury (Hg)	μg/L	DIN 18035-7	< 0.015	≤1	Pass
Zinc (Zn1)	mg/L	DIN 18035-7	0.2	≤ 0.5	Pass
DOC	mg/L	DIN 18035-7	43.4	≤ 40	Pass
EOX	mg/kg MS	DIN 18035-7	25	≤ 100	Pass

Toxicological analysis of polycyclic aromatic hydrocarbons (PAHs) – ASTM F3496:

Elements	Units	Method	Results	Requirements	Pass/Fail
Benzo (a) pyrene	mg/Kg	ASTM F3496	0.35	-	-
Benzo (e) pyrene	mg/Kg	ASTM F3496	0.81	-	-
Benzo (a) anthracene	mg/Kg	ASTM F3496	< 0.2	-	-
Chrysene	mg/Kg	ASTM F3496	< 0.2	-	-
Benzo (j+b) fluoranthene	mg/Kg	ASTM F3496	0.20	-	-
Benzo (k) fluoranthene	mg/Kg	ASTM F3496	< 0.2	-	-
Dibenzo (a,h) anthracene	mg/Kg	ASTM F3496	< 0.2	-	-
HAP (sum)	mg/Kg	ASTM F3496	< 2.16	< 20	Pass

**Toxicological analysis of phtalates:** 

Element	Units	Test method	Results	REACH Annex XVII entry 51	Pass/Fail
Dimethylphtalate	mg/Kg	DIN 18035-7	< 1	-	-
Diethylphtalate	mg/Kg	DIN 18035-7	< 1	-	-
Di-iso-butylphtalate	mg/Kg	DIN 18035-7	< 1	< 1000	Pass
Di-n-butylphtalate	mg/Kg	DIN 18035-7	< 1	< 1000	Pass
Bis-(2-methoxyethyl)phtalate	mg/Kg	DIN 18035-7	< 1	-	-
Benzyl-butylphtalate	mg/Kg	DIN 18035-7	< 1	< 1000	Pass
Bis-(2-ethylhexyl)phthalate	mg/Kg	DIN 18035-7	1.8	< 1000	Pass
Di-n-octylphtalate	mg/Kg	DIN 18035-7	< 1	-	-
DI-iso-nonylphtalate	mg/Kg	DIN 18035-7	< 1	-	-
Di-iso-decylphtalate	mg/Kg	DIN 18035-7	< 1	-	-
Phtalates – Total sample	mg/Kg	DIN 18035-7	< 10.8	-	-

### **REPORTED BY**

Cont.

Laurent LACHAUSSÉE (Laboratory Technician) - Writer

Maxime FAVÉ (Laboratory Manager) – Writer/Approver