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SHAW SPORTS TURF PFAS STATEMENT – Legion Turf Field Products

To Whom It May Concern:

Shaw has a longstanding commitment to sustainability and the responsible manufacture of our products. This includes a strong focus on the material chemistry of our products. This commitment applies to our brands and is inclusive of Shaw Sports Turf.

Based on information provided to date by suppliers, Shaw Sports Turf does not use any PFAS chemicals currently listed as part of California's Proposition 65 regulations or identified as part of USEPA's Method 537 to manufacture the components of its Legion turf field products, including the fibers and backing materials. This information is confirmed through independent, third party laboratory testing of the finished product; thus, a copy of the most recent laboratory test results for the Legion turf field products is provided for your convenience and reference.

If you should have any questions, please do not hesitate to contact the undersigned at 706-532-2185, or by email at troy.virgo@shawinc.com.

Sincerely,

A handwritten signature in black ink that reads "Troy Virgo". The signature is written in a cursive, flowing style.

Troy Virgo
Director of Sustainability
Shaw Industries Group, Inc.

PFAS by LC/MS/MS

Client: **Shaw Industries Technical Services**

Laboratory ID: **VC27011-001**

Description: **Legion**

Matrix: **Solid**

Date Sampled: **03/26/2020 0900**

Date Received: **03/27/2020**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP QSM B-15	1	04/01/2020 1034	MMM	03/30/2020 1521	49377

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	PFAS by ID SO	ND	W	1.9	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	833051-92-9	PFAS by ID SO	ND	W	1.9	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SO	ND	W	1.9	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SO	ND	W	1.9	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SO	ND	W	0.96	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SO	ND	W	1.9	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SO	ND	W	3.8	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SO	ND	W	1.9	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SO	ND	W	1.9	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SO	ND	W	0.96	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SO	ND	W	1.9	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SO	ND	W	1.9	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SO	ND	W	0.96	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SO	ND	W	1.9	ug/kg	1
Perfluoro-1-butanefluoro-1-sulfonic acid (PFBS)	375-73-5	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SO	ND	W	0.96	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SO	ND	W	0.96	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		101	50-150
13C2_6:2FTS		103	50-150
13C2_8:2FTS	N	233	50-150
13C2_PFDa		111	50-150
13C2_PFTeDA		99	50-150
13C3_PFBS		99	50-150
13C3_PFHxS		100	50-150
13C3-HFPO-DA		90	50-150
13C4_PFBA		112	50-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40%
 H = Out of holding time W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

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Date Sampled: **03/26/2020 0900**

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Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C4_PFHpA		100	50-150
13C5_PFHxA		92	50-150
13C5_PFPeA		105	50-150
13C6_PFDA		115	50-150
13C7_PFUdA		108	50-150
13C8_PFOA		104	50-150
13C8_PFOS		106	50-150
13C8_PFOSA		96	50-150
13C9_PFNA		103	50-150
d-EtFOSA		95	50-150
d5-EtFOSAA		104	50-150
d9-EtFOSE		110	50-150
d-MeFOSA		96	50-150
d3-MeFOSAA		110	50-150
d7-MeFOSE		105	50-150

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Shaw Sports Turf Product Composition Document

– Legion Products

Shaw has a long-standing commitment to sustainability that includes the review our purchased raw materials and finished products for environmental and human health impacts. In many cases our review process includes independent third party assessments and product certifications.

Shaw's Sports Turf products are considered "manufactured items formed to a specific shape or design during manufacture". They do not meet the definition of a chemical substance and as such are not subject to the SDS requirements of U.S. Code of Federal Regulations, Title 29, 1910.1200. This material is also exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.

In response to your request for a product SDS - and to support your commitments to sustainability and product transparency, we are providing the following material composition summary for Legion Turf products.

Table 1: Legion Composition Summary*

Component Name	Component Description	Material	Primary CAS Number	Approximate Weight%
Bolt	Monofilament Yarn	Polyethylene	25213-02-09	25-28
Tape	Slit Tape Yarn	Polyethylene	25213-02-09	35-40
Ultraloc	Primary Backing	Polypropylene	9003-07-0	3-8
Urethane	Secondary Backing	Polyurethane	9009-54-5	28-35

All ingredients are listed on the TSCA Inventory. First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Please follow manufacturer's recommendations for installation and maintenance. For questions or additional information, please contact us at:

Information Center

Phone: 1.800.441.7429 – Fax: 706.275.3543

Email: infocenter@shawinc.com

* Reasonable care has been taken in the preparation of this information, including the review and incorporation of supplier provided information. As such, Shaw makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Shaw makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given.

sustain[HUMAN]ability®

Shaw's Approach to Sustainability: sustain[HUMAN]ability®

At Shaw, we're focused on what we call sustain[HUMAN]ability®—developing and promoting solutions that are designed for people AND the planet.

We know that the spaces where people work, play, learn, create and come together to solve our greatest challenges have a significant impact on human experience. In all of our products and processes, we ask ourselves, “how can we minimize our impact on the environment and maximize human potential?”

We are perpetually taking the next step forward, across every element of our sustainability strategy starting with the human element.



Through a Long-Standing Commitment to Cradle to Cradle® Principles

OVER 20 YEARS of dedication to Cradle to Cradle design principles reflect Shaw's commitment to sustainability.

ALMOST 90% of the products Shaw manufactured today are Cradle to Cradle Certified™.

Reclaimed and recycled almost **ONE BILLION POUNDS** of carpet since 2006.

Assessed more than **1.6 BILLION POUNDS** of raw material for material health in 2019.

NXTPLAY

Turf—The Next Frontier

In 2020, Shaw Sports Turf's NXTPlay Performance Pad became the first Shaw turf product (of any type) to be Cradle to Cradle Certified.™

The Cradle to Cradle Certified™ Bronze product is just another example of how Shaw Sports Turf continues to lead the synthetic turf industry in research and development. We are committed to bringing new innovations and solutions to the market while providing the next level in performance to customers. NXTPlay is just the latest in our commitment to creating 'more than a field.'

sustain[HUMAN]ability®

Cradle to Cradle Certified™ Overview

The Cradle to Cradle Certified™ Product Program provides an independent, third-party assessment of Shaw products' performance against rigorous standards in five key categories:



MATERIAL HEALTH

Ensures our products are made from ingredients deemed safe and healthy through the program's material health assessment.



PRODUCT CIRCULARITY

Assesses the percentage of rapidly renewable materials or recycled content used in our products. Assesses the percentage of materials within our products that can be safely reused, recycled or composted at the product's end of use.



CLEAN AIR & CLIMATE CHANGE

Helps to ensure products are manufactured using renewable energy and in such a way as to reduce or eliminate the impact of climate changing greenhouse gases due to the manufacturing of the product.



WATER & SOIL STEWARDSHIP

Addresses water quality and quantity and soil conservation where relevant. Ensures water is recognized as a valuable resource, watersheds are protected, and clean water is available to people and all other organisms.



SOCIAL FAIRNESS

Honors all people and natural systems affected by the manufacture of a product, with a focus on fair labor and human rights principles in our operations and our supply chain.

Achievement Levels

Based upon the third-party assessment, a product receives an achievement level of Basic, Bronze, Silver, Gold, or Platinum in each of the five categories. The overall product rating is derived from the lowest achievement level in any of those categories. Every two years, Shaw must demonstrate efforts to improve the product in these five categories in order to have the product certified for another two-year period.

BASIC
BRONZE
SILVER
GOLD
PLATINUM

CRADLE TO CRADLE
PRODUCTS
I N N O V A T I O N
I N S T I T U T E

LICENSED MARKS:



Cradle to Cradle Certified™ Bronze

THE LICENSED MARKS IDENTIFIED ABOVE MAY BE LICENSED TO:

Shaw Industries Group, Inc.

FOR THE BELOW LISTED CERTIFIED PRODUCTS ASSOCIATED WITH THE NAME:

NXTPlay™

Peter Jempletton

Cradle to Cradle Products Innovation Institute

Only the following products are considered Certified Product(s) within the scope of this certification and the associated Trademark License Agreement:

NXTPlay™

START DATE

08 October 2020

CERTIFICATION #

4579

EXPIRATION DATE

07 October 2022

LEAD ASSESSMENT BODY:
MBDC



Certified under Version 3.1 of the Cradle to Cradle Certified™ Product Standard
Use of Licensed Marks is subject to terms and conditions of the C2CPII Trademark License Agreement and Trademark Use Guidelines.
Cradle to Cradle Certified™ is a registered trademark of the Cradle to Cradle Products Innovation Institute