IOWA DEPARTMENT OF NATURAL RESOURCES

REQUEST FOR SPECIAL WASTE AUTHORIZATION

Check one of the following: ☑ **New Application** ☐ **Renewal, Existing SWA #** _____

The intent of a special waste authorization is to provide safe and proper management for disposal of wastes which present a threat to human health or the environment or a waste with inherent properties which make the disposal of the waste in a sanitary landfill difficult to manage. It is each landfill's responsibility to inform the waste generator if a waste should be handled as a special waste and to ensure that special wastes delivered to the landfill conform to the Special Waste Acceptance Criteria (SWAC) on file with the Department. It is the Department's responsibility to review each application for a special waste authorization to verify that the proposed waste can be landfilled under the current regulations in Iowa.

READ THE FOLLOWING INSTRUCTIONS BEFORE COMPLETING THIS APPLICATION

Waste Generator:

1. Complete Sections 1-3 of this application applicable to the waste characterization and disposal information.
2. Attach Toxicity Characteristic Leaching Procedure (TCLP) test results, material safety data sheet(s) (MSDS), or evidence of "processor knowledge" when appropriate that demonstrates the waste is not considered a characteristic hazardous waste exhibiting the properties of flammability, corrosivity, reactivity or toxicity or a listed hazardous waste as defined in 40 CFR Part 261, Subpart D.
3. Provide signature in Section 3 to verify that the information provided is true, accurate and complete.
4. Mail or deliver (2) copies of the completed application with attachments to the requested disposal destination (*must be a landfill that is authorized to accept waste from the service area of where the waste was generated*). Please contact Sue Johnson at (515) 281-7982 for a list of landfills authorized to accept waste from the service area in which your facility is located.

Receiving Landfill:

Prior review of this application by the receiving landfill allows the department to more quickly process and evaluate the application.

1. Complete Section 5 of this application applicable to the landfill.
2. Indicate by signing the application that the landfill is willing to accept the waste if a Special Waste Authorization is issued by the department and if instructions for disposal of the waste, as contained in the landfill's SWAC, are followed by the generator.
3. Attach SWAC procedures for disposal of the waste.
4. Keep 1 copy for your records and submit the remaining one copy of the completed application with attachments (TCLP, MSDS, SWAC, etc.) to the department at the following address:

   Iowa Department of Natural Resources
   Land Quality Bureau- Attn: Susan Johnson
   502 East 9th Street
   Des Moines, IA 50319-0034

Applications will be considered incomplete if not signed by both the waste generator and receiving landfill. The receiving landfill must attach a copy of the SWAC for the particular waste for which the application has been submitted.

Written notification of approval or rejection will be mailed or faxed to the generator and landfill. If approved, a copy of the authorization must accompany the waste hauler to the landfill.

For questions concerning this application contact Sue Johnson at (515) 281-7982 or susan.johnson@dnr.iowa.gov.

SECTION 1: WASTE GENERATOR INFORMATION

Name of Primary Contact* Amanda Dean **Title** Regional Environmental Manager
SWA approvals will be sent to this person at the address provided below.

Company Name JELD-WEN, Inc.

Mailing Address 820 Industrial Dr.

City Grinnell **State** IA **Zip Code** 50112

Telephone # 641-269-1007 **Fax #**

Address or location of the point of generation of the waste, if different from the company address:

Address 820 & 911 Industrial Dr.

City Grinnell **State** IA **Zip Code** 50112

SECTION 2: WASTE CHARACTERIZATION

Waste determined to be hazardous may not be landfilled in Iowa. Attach TCLP analysis that demonstrates the waste is not considered hazardous. For raw or virgin materials being disposed of, a MSDS that indicates the waste is not hazardous may be submitted in lieu of a TCLP analysis.

The generator may also apply knowledge of the hazardous characteristic(s) of the waste in light of the materials or the processes used ("knowledge of process"). In order to use knowledge to characterize the waste, the knowledge that is applied must be valid and verifiable and the generator must be able to demonstrate the basis for their claim by providing supporting information to justify that conclusion.

Name and description of waste:
SMC material - Hardwood, Particleboard, Pine Plank, Phenolic Based Foam, Fiberglass Skin, Film Covering Packing

Has any pretreatment been utilized? If so, please describe the pretreatment process:
No pretreatment

List the alternatives to disposal that were analyzed and reason not utilized (*attach extra sheets if necessary*):
Regrinding / recycling currently not feasible

SECTION 2: WASTE CHARACTERIZATION (Continued)

Physical state at room temperature?	Percent (%) Solid:	pH:	Flashpoint:
☐ Solid ☐ Semi-Solid ☐ Liquid	100	5	>94 C

Does this waste pass the paint filter liquids test? **Free liquids are prohibited from landfill disposal. Free liquids are defined as the liquid produced when a 100-millimeter or 100-gram representative sample is placed on a standard mesh number 60 (fine mesh size) conical paint filter for five minutes.**	☑ **Yes** ☐ **No**
Is this waste a listed hazardous waste as identified in 40 CFR 261, Subpart D? Refer to the following web link to find listed hazardous wastes: http://www.gpoaccess.gov/cfr/index.html	☐ **Yes** ☑ **No**
Does this waste exhibit the property of *ignitability* as defined in 40 CFR 261, Subpart C?	☐ **Yes** ☑ **No**
Does this waste exhibit the property of *corrosivity* as defined in 40 CFR 261, Subpart C?	☐ **Yes** ☑ **No**
Does this waste exhibit the property of *reactivity* as defined in 40 CFR 261, Subpart C?	☐ **Yes** ☑ **No**
Does this waste exhibit the property of *toxicity* as defined in 40 CFR 261, Subpart C?	☐ **Yes** ☑ **No**

SECTION 3: WASTE DISPOSAL INFORMATION

Indicate the proposed disposal location and if this is a request for an on going disposal of a special waste or a one-time disposal. If on going, indicate the approximate amount in pounds to be disposed of quarterly.

Landfill Name* South Central Iowa Solid Waste Agency

List only a landfill that is authorized to accept waste from the service area of where the waste was generated. Sue Johnson at (515) 281-7982 or susan.johnson@dnr.iowa.gov for a list of landfills authorized to accept waste from your facility.

☒ **On going (or intermittent) with an average disposal rate per quarter of** 29,000 **pounds**

Indicate the amount on hand to be disposed of immediately: _____ **pounds**

☐ **One time only, with an estimated quantity of** _____ **pounds**

SECTION 4: WASTE GENERATOR CERTIFICATION

" I certify under penalty of law (§455B.417.1(c), Code of Iowa) that I have examined and am familiar with the information submitted in this document concerning hazardous waste, and all attachments, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. "

Applicant Signature: Amanda Dean **Date:** 10/23/2025

Printed Name: Amanda W. Dean **Title:** Regional Environmental Manager

SECTION 5: LANDFILL INFORMATION

The following section is to be completed by the receiving landfill. By signing below, the landfill verifies that the application has been examined and if approved by the department, is willing to accept the waste described within, provided that instructions for disposal of the waste, as contained in the landfill's Special Waste Acceptance Criteria, are followed by the generator.

Prior review of this application by the receiving landfill will allow the department to more quickly process and evaluate the application. Please address the following:

Indicate the properties that lead you to believe this is a special waste:
possible inhalation hazard when crushed

Indicate any special handling procedures that the waste generator must follow prior to delivery at the landfill:
All special wastes shall be hauled separate of other material
All special waste shall be fully contained during transport
All special waste loads shall have a fully executed manifest accompany the loads
24 hour notice shall be given the landfill before acceptance

Name of Responsible Official*: Rick Hurt
SWA approvals will be sent to this person at the address given below.

Solid Waste Agency Name South Central Iowa Solid Waste Agency

Mailing Address 1736 Highway T-17

City Tracy **State** IA **Zip Code** 50256

Telephone # 641-828--8545 **Fax #** 641-842-3722

Responsible Official Signature: Rick Hurt **Date:** 10/24/2025

Special Waste Acceptance Criteria

County Marion **Permit #** 63-SDP-02-77P

Responsible Official Rick Hurt

Facility South Central Iowa Solid Waste Agency

Address 1736 Hwy T-17

City, State, Zip Tracy, IA 50256

Please make address corrections as necessary

Send completed form to:
Sue Johnson
Iowa DNR - Solid Waste Section
Iowa DNR
502 E 9th St
Des Moines IA 50319-0034

SPECIAL WASTE CURRENTLY ACCEPTED. Please provide information regarding special waste this facility is currently accepting for final disposal. Provide details for requirements for accepting and off-loading each special waste. *NOTE:* Completion of this form requires reference to Iowa Administrative Code 567-109. Please type or print in ink.

SWA Number New

SWA Acceptance and Management Description

All special wastes shall be hauled separate of other material
All special waste shall be fully contained during transport
All special waste loads shall have a fully executed manifest accompany the loads
24 hour notice shall be given the landfill before acceptance

SWA Number _____

SWA Acceptance and Management Description

Questions? Call or email:
Sue Johnson, Environmental Specialist, Susan.Johnson@dnr.iowa.gov , 515-217-0872
Becky Jolly, Statistical Research Analyst, Becky.Jolly@dnr.iowa.gov , 515-725-8308

SWA Number _____

SWA Acceptance and Management Description

SWA Number _____

SWA Acceptance and Management Description

If more room is needed, please follow the provided format and attach additional sheets.

CERTIFICATION

I certify under penalty of law that I am the owner, operator, or authorized representative of the owner or operator and that U have examined and am familiar with the information reported above, and that I believe the information is true accurate and complete.

Name of Person Certifying: Rick Hurt **Agency:** SCISWA

Phone: 641-828-8545 **Fax:** 641-842-3722 **Email:** rhurt@sciswa.org

Signature: Rick Hurt

Questions? Call or email:
Sue Johnson, Environmental Specialist, Susan.Johnson@dnr.iowa.gov , 515-217-0872
Becky Jolly, Statistical Research Analyst, Becky.Jolly@dnr.iowa.gov , 515-725-8308

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1II2345

Project Description

TCLP Testing

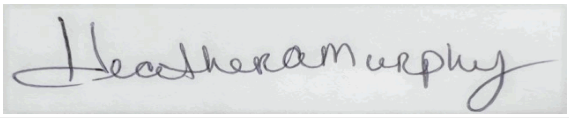
For:

Eric Rozendaal

Jeld-Wen

911 Industrial Avenue

Grinnell, IA 50112



Heather Murphy

Customer Relationship Specialist

Wednesday, October 15, 2025

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1II2345

Jeld-Wen

Eric Rozendaal
911 Industrial Avenue
Grinnell, IA 50112

Project Name: TCLP Testing

Project / PO Number: N/A
Received: 09/30/2025
Reported: 10/15/2025

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
Hardwood	1II2345-01	Bulk-Solid			09/30/25 12:00	09/30/25 15:40
Particleboard	1II2345-02	Bulk-Solid			09/30/25 12:00	09/30/25 15:40
Pine Plank	1II2345-03	Bulk-Solid			09/30/25 12:00	09/30/25 15:40
Phenolic Based Foam	1II2345-04	Bulk-Solid			09/30/25 12:00	09/30/25 15:40
Fiberglass Skin (SMC) un-cured	1II2345-05	Bulk-Solid			09/30/25 12:00	09/30/25 15:40
Film that covers the SMC in packaging	1II2345-06	Bulk-Solid			09/30/25 12:00	09/30/25 15:40

CERTIFICATE OF ANALYSIS

1II2345

Analytical Testing Parameters

Client Sample ID:	Hardwood		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-01	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/09/25 0000	10/09/25 1409	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1409	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/09/25 0000	10/09/25 1409	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/09/25 0000	10/09/25 1409	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1409	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1409	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1409	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1409	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1409	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/09/25 0000	10/09/25 1409	RAF
Surrogate: Dibromofluoromethane	91.9	Limit: 57-128	% Rec		10/09/25 0000	10/09/25 1409	RAF
Surrogate: 1,2-Dichloroethane-d4	85.5	Limit: 49-135	% Rec		10/09/25 0000	10/09/25 1409	RAF
Surrogate: Toluene-d8	97.4	Limit: 82-116	% Rec		10/09/25 0000	10/09/25 1409	RAF
Surrogate: 4-Bromofluorobenzene	98.7	Limit: 77-114	% Rec		10/09/25 0000	10/09/25 1409	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	Q3	10/13/25 1345	10/14/25 1504	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1504	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1504	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1504	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1504	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1504	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1504	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1504	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1504	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1504	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1504	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1504	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1504	EPP
Surrogate: 2-Fluorophenol	106	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1504	EPP
Surrogate: Phenol-d6	111	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1504	EPP
Surrogate: Nitrobenzene-d5	99.5	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1504	EPP
Surrogate: 2-Fluorobiphenyl	109	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1504	EPP
Surrogate: 2,4,6-Tribromophenol	98.2	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1504	EPP
Surrogate: Terphenyl-dl4	109	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1504	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Hardwood		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-01	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Initial	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR
TCLP pH, Final	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Particleboard		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-02	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/09/25 0000	10/09/25 1434	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1434	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/09/25 0000	10/09/25 1434	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/09/25 0000	10/09/25 1434	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1434	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1434	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1434	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1434	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1434	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/09/25 0000	10/09/25 1434	RAF
Surrogate: Dibromofluoromethane	93.4	Limit: 57-128	% Rec		10/09/25 0000	10/09/25 1434	RAF
Surrogate: 1,2-Dichloroethane-d4	86.7	Limit: 49-135	% Rec		10/09/25 0000	10/09/25 1434	RAF
Surrogate: Toluene-d8	97.5	Limit: 82-116	% Rec		10/09/25 0000	10/09/25 1434	RAF
Surrogate: 4-Bromofluorobenzene	97.9	Limit: 77-114	% Rec		10/09/25 0000	10/09/25 1434	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	**Q3**	10/13/25 1345	10/14/25 1529	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1529	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1529	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1529	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1529	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1529	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1529	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1529	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1529	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1529	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1529	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1529	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1529	EPP
Surrogate: 2-Fluorophenol	93.7	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1529	EPP
Surrogate: Phenol-d6	101	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1529	EPP
Surrogate: Nitrobenzene-d5	89.5	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1529	EPP
Surrogate: 2-Fluorobiphenyl	98.4	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1529	EPP
Surrogate: 2,4,6-Tribromophenol	89.7	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1529	EPP
Surrogate: Terphenyl-dl4	109	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1529	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							
TCLP pH, Initial	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Particleboard		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-02	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Final	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Pine Plank		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-03	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/09/25 0000	10/09/25 1500	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1500	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/09/25 0000	10/09/25 1500	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/09/25 0000	10/09/25 1500	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1500	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1500	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1500	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1500	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1500	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/09/25 0000	10/09/25 1500	RAF
Surrogate: Dibromofluoromethane	92.6	Limit: 57-128	% Rec		10/09/25 0000	10/09/25 1500	RAF
Surrogate: 1,2-Dichloroethane-d4	86.5	Limit: 49-135	% Rec		10/09/25 0000	10/09/25 1500	RAF
Surrogate: Toluene-d8	97.5	Limit: 82-116	% Rec		10/09/25 0000	10/09/25 1500	RAF
Surrogate: 4-Bromofluorobenzene	98.2	Limit: 77-114	% Rec		10/09/25 0000	10/09/25 1500	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	**Q3**	10/13/25 1345	10/14/25 1554	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1554	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1554	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1554	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1554	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1554	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1554	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1554	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1554	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1554	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1554	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1554	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1554	EPP
Surrogate: 2-Fluorophenol	90.0	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1554	EPP
Surrogate: Phenol-d6	100	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1554	EPP
Surrogate: Nitrobenzene-d5	85.2	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1554	EPP
Surrogate: 2-Fluorobiphenyl	93.3	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1554	EPP
Surrogate: 2,4,6-Tribromophenol	87.4	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1554	EPP
Surrogate: Terphenyl-dl4	103	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1554	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							
TCLP pH, Initial	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Pine Plank		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-03	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Final	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Phenolic Based Foam		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-04	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/09/25 0000	10/09/25 1525	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1525	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/09/25 0000	10/09/25 1525	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/09/25 0000	10/09/25 1525	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1525	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1525	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1525	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1525	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1525	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/09/25 0000	10/09/25 1525	RAF
Surrogate: Dibromofluoromethane	91.6	Limit: 57-128	% Rec		10/09/25 0000	10/09/25 1525	RAF
Surrogate: 1,2-Dichloroethane-d4	85.6	Limit: 49-135	% Rec		10/09/25 0000	10/09/25 1525	RAF
Surrogate: Toluene-d8	98.5	Limit: 82-116	% Rec		10/09/25 0000	10/09/25 1525	RAF
Surrogate: 4-Bromofluorobenzene	96.2	Limit: 77-114	% Rec		10/09/25 0000	10/09/25 1525	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	**Q3**	10/13/25 1345	10/14/25 1619	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1619	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1619	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1619	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1619	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1619	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1619	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1619	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1619	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1619	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1619	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1619	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1619	EPP
Surrogate: 2-Fluorophenol	98.4	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1619	EPP
Surrogate: Phenol-d6	101	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1619	EPP
Surrogate: Nitrobenzene-d5	98.6	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1619	EPP
Surrogate: 2-Fluorobiphenyl	101	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1619	EPP
Surrogate: 2,4,6-Tribromophenol	98.1	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1619	EPP
Surrogate: Terphenyl-dl4	65.6	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1619	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							
TCLP pH, Initial	**4.9**		pH		10/08/25 0720	10/10/25 1549	JAR

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Phenolic Based Foam		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-04	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Final	**5.0**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Fiberglass Skin (SMC) un-cured		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-05	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/09/25 0000	10/09/25 1550	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1550	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/09/25 0000	10/09/25 1550	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/09/25 0000	10/09/25 1550	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1550	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1550	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1550	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/09/25 0000	10/09/25 1550	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/09/25 0000	10/09/25 1550	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/09/25 0000	10/09/25 1550	RAF
Surrogate: Dibromofluoromethane	82.6	Limit: 57-128	% Rec		10/09/25 0000	10/09/25 1550	RAF
Surrogate: 1,2-Dichloroethane-d4	76.4	Limit: 49-135	% Rec		10/09/25 0000	10/09/25 1550	RAF
Surrogate: Toluene-d8	101	Limit: 82-116	% Rec		10/09/25 0000	10/09/25 1550	RAF
Surrogate: 4-Bromofluorobenzene	93.1	Limit: 77-114	% Rec		10/09/25 0000	10/09/25 1550	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	**Q3**	10/13/25 1345	10/14/25 1644	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1644	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1644	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1644	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1644	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1644	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1644	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1644	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1644	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1644	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1644	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1644	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1644	EPP
Surrogate: 2-Fluorophenol	98.6	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1644	EPP
Surrogate: Phenol-d6	93.5	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1644	EPP
Surrogate: Nitrobenzene-d5	93.9	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1644	EPP
Surrogate: 2-Fluorobiphenyl	102	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1644	EPP
Surrogate: 2,4,6-Tribromophenol	92.2	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1644	EPP
Surrogate: Terphenyl-dl4	110	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1644	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							
TCLP pH, Initial	**4.9**		pH		10/08/25 0720	10/10/25 1549	JAR

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Fiberglass Skin (SMC) un-cured		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-05	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Final	**4.9**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Film that covers the SMC in packaging		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-06	**Collection Date:**	09/30/2025 12:00

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of TCLP Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 5030B/EPA 8260D							
Vinyl Chloride (TCLP)	<0.020	0.020	mg/L		10/10/25 0000	10/10/25 1402	RAF
1,1-Dichloroethylene (TCLP)	<0.070	0.070	mg/L		10/10/25 0000	10/10/25 1402	RAF
2-Butanone (MEK) (TCLP)	<20.0	20.0	mg/L		10/10/25 0000	10/10/25 1402	RAF
Chloroform (TCLP)	<0.600	0.600	mg/L		10/10/25 0000	10/10/25 1402	RAF
Carbon Tetrachloride (TCLP)	<0.050	0.050	mg/L		10/10/25 0000	10/10/25 1402	RAF
Benzene (TCLP)	<0.050	0.050	mg/L		10/10/25 0000	10/10/25 1402	RAF
1,2-Dichloroethane (TCLP)	<0.050	0.050	mg/L		10/10/25 0000	10/10/25 1402	RAF
Trichloroethylene (TCLP)	<0.050	0.050	mg/L		10/10/25 0000	10/10/25 1402	RAF
Tetrachloroethylene (TCLP)	<0.070	0.070	mg/L		10/10/25 0000	10/10/25 1402	RAF
Chlorobenzene (TCLP)	<10.0	10.0	mg/L		10/10/25 0000	10/10/25 1402	RAF
Surrogate: Dibromofluoromethane	91.3	Limit: 57-128	% Rec		10/10/25 0000	10/10/25 1402	RAF
Surrogate: 1,2-Dichloroethane-d4	83.0	Limit: 49-135	% Rec		10/10/25 0000	10/10/25 1402	RAF
Surrogate: Toluene-d8	96.2	Limit: 82-116	% Rec		10/10/25 0000	10/10/25 1402	RAF
Surrogate: 4-Bromofluorobenzene	98.1	Limit: 77-114	% Rec		10/10/25 0000	10/10/25 1402	RAF

Determination of TCLP Semi-Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
Pyridine (TCLP)	<0.500	0.500	mg/L	**Q3**	10/13/25 1345	10/14/25 1709	EPP
1,4-Dichlorobenzene (TCLP)	<0.750	0.750	mg/L		10/13/25 1345	10/14/25 1709	EPP
o-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1709	EPP
m+p-Cresol (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1709	EPP
Total Cresols (TCLP)	<20.0	20.0	mg/L		10/13/25 1345	10/14/25 1709	EPP
Hexachloroethane (TCLP)	<0.300	0.300	mg/L		10/13/25 1345	10/14/25 1709	EPP
Nitrobenzene (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1709	EPP
Hexachlorobutadiene (TCLP)	<0.050	0.050	mg/L		10/13/25 1345	10/14/25 1709	EPP
2,4,6-Trichlorophenol (TCLP)	<0.200	0.200	mg/L		10/13/25 1345	10/14/25 1709	EPP
2,4,5-Trichlorophenol (TCLP)	<40.0	40.0	mg/L		10/13/25 1345	10/14/25 1709	EPP
2,4-Dinitrotoluene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1709	EPP
Hexachlorobenzene (TCLP)	<0.013	0.013	mg/L		10/13/25 1345	10/14/25 1709	EPP
Pentachlorophenol (TCLP)	<10.0	10.0	mg/L		10/13/25 1345	10/14/25 1709	EPP
Surrogate: 2-Fluorophenol	90.7	Limit: 10-159	% Rec		10/13/25 1345	10/14/25 1709	EPP
Surrogate: Phenol-d6	89.4	Limit: 10-162	% Rec		10/13/25 1345	10/14/25 1709	EPP
Surrogate: Nitrobenzene-d5	90.5	Limit: 17-154	% Rec		10/13/25 1345	10/14/25 1709	EPP
Surrogate: 2-Fluorobiphenyl	96.2	Limit: 15-150	% Rec		10/13/25 1345	10/14/25 1709	EPP
Surrogate: 2,4,6-Tribromophenol	89.9	Limit: 10-156	% Rec		10/13/25 1345	10/14/25 1709	EPP
Surrogate: Terphenyl-dl4	109	Limit: 10-179	% Rec		10/13/25 1345	10/14/25 1709	EPP

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1311/EPA 1311							
TCLP pH, Initial	**4.9**		pH		10/08/25 0720	10/10/25 1549	JAR

CERTIFICATE OF ANALYSIS

1II2345

Client Sample ID:	Film that covers the SMC in packaging		
Sample Matrix:	Bulk-Solid	**Collected By:**	Neal
Lab Sample ID:	1II2345-06	**Collection Date:**	09/30/2025 12:00

TCLP Extraction	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TCLP pH, Final	**4.9**		pH		10/08/25 0720	10/10/25 1549	JAR

Analyses Performed by: Microbac Laboratories, Inc., Newton MT

Flash Point by Cleveland Open Cup	Result	RL	Units	Note	Prepared	Analyzed	Analyst
ASTM D92							
Flash-Point	**>94**		Celsius			10/08/25 0901	ECM

Definitions

Q3: LCS recovery is below acceptance limits. The reported value is estimated.

RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 23.4°C

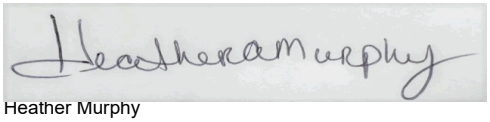
Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:



Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
10/15/25 15:09

CHAIN OF CUSTODY RECORD

MICROBAC®
600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

SITE INFORMATION

Sampler: Neal

Project: TCLP Testing

REPORT TO

Eric Rozendaal
Jeld-Wen
911 Industrial Avenue
Grinnell, IA 50112

INVOICE TO

Eric Rozendaal
Jeld-Wen
911 Industrial Avenue
Grinnell, IA 50112

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

1 I I 2 3 4 5
Jeld-Wen
PM: Heather Murphy

Temperature: 23.4 oC Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	**Hardwood**	Bulk-Solid	9/30/25	12pm			8270-201 8260-205 Flash-Point-Open-D92 °C	01
02-001	**Particleboard**	Bulk-Solid					8270-201 8260-205 Flash-Point-Open-D92 °C	02
03-001	**Pine Plank**	Bulk-Solid					8270-201 8260-205 Flash-Point-Open-D92 °C	03
04-001	**Phenolic Based Foam**	Bulk-Solid					8270-201 8260-205 Flash-Point-Open-D92 °C	04
05-001	**Fiberglass Skin (SMC) un-cured**	Bulk-Solid					8270-201 8260-205 Flash-Point-Open-D92 °C	05
06-001	**Film that covers the SMC in packaging**	Bulk-Solid					8270-201 8260-205 Flash-Point-Open-D92 °C	06

Relinquished By — Date/Time: 9/30/25 3:25pm

Received By — Date/Time

Relinquished By — Date/Time

Received for Lab By: Stacie Smith — Date/Time: 09.30.25@1540

Remarks:

ACELL 150 NATURAL

Revision 3

SECTION 1 – Identification of the substance/mixture and of the company/undertaking

1.1 – Product identifier	ACELL 150 NATURAL
1.2 – Relevant identified uses of the substance or mixture and uses advised against	*Identified uses:* phenolic foam for thermal and acoustic insulation. *Uses advised against:* uses not listed in the "identified uses" section above.
1.3 – Details of the supplier of the safety data sheet	ACELL Italy S.r.l. Via Ticino, 40-46 I-20098 San Giuliano Milanese (MI) Italy Ph: +39.02.98280355 Fax: +39.02.98280364 e-mail: info@acelltec.com
1.4 – Emergency telephone number	Ph. +39.02.98280355 (availability: 08:00 AM to 05:00 PM CET)

SECTION 2 – Hazards identification

2.1 – Classification of the substance or mixture	The product does not meet the classification criteria of GHS.
2.2 – Label elements	Not applicable
2.3 – Other hazards	Based on available data, the product does not contain any PBT or vPvB substances more than 0.1%

SECTION 3 – Composition/information on ingredients

3.1 – Substance	Not applicable
3.2 – Mixture	The mixture does not contain any substances meeting the classification criteria of GHS over the concentration limit value fixed by the regulations.

SECTION 4 – First aid measures

4.1 – Description of first aid measures	Inhalation: remove victim to fresh air. Bring the casualty in a quiet place and provide fresh air. In the event of difficult breathing seek medical attention. Skin contact: take contaminated clothes off. Wash off immediately with plenty of water. In the event of persistent irritation seek medical attention. Wash clothes before reuse. Eyes contact: remove contact lenses if easy to do. Wash immediately with plenty of water (room temperature) for at least 15 minutes, opening the lids wide. If irritation persists seek medical attention. Swallowing: seek medical attention immediately and show the Safety Data Sheet. Do not induce vomiting unless expressly authorised by the doctor/physician. Do not give any medication or drink if the person is unconscious and without authorization by the doctor/physician.
4.2 – Most important symptoms and effects, both acute and	Specific information on symptoms and effect caused by the product are not known.

delayed	
4.3 – Indication of any immediate medical attention and special treatment needed	Not pertinent.

SECTION 5 – Firefighting measures

5.1 – Extinguishing media	Suitable extinguishing media: carbon dioxide, foam, dry extinguisher agents, water just for cooling down the receptacles. Non-suitable extinguishing media: water jets on burning material may cause projection of incandescent particles.
5.2 – Special hazards arising from the substance or mixture	From thermal decomposition and combustion of the product: carbon dioxide (CO_2), carbon monoxide (CO), and mists containing partially burned compounds.
5.3 – Advice for fire-fighters	Use water to cool the receptacles in order to avoid the thermal decomposition of the product and the development of potentially hazardous substances. Collect the water use for the firefighting and avoid any contact with the sewage system. Dispose of contaminated waters according to the current regulations. Equipment: wear typical personal protective equipment for firefighters.

SECTION 6 – Accidental release measures

6.1 – Personal precautions, protective equipment and emergency procedures	Avoid dust formation providing water spray if it is possible to do. Avoid contact with skin and eyes: wear suitable personal protective equipment (safety gloves, goggles, work clothes). Avoid inhalation of the product: wear a suitable mask protecting the respiratory tract.
6.2 – Environmental precautions	Prevent product from entering drains, surface waters, ground water. Do not disperse empty receptacles in the environment.
6.3 – Methods and material for containment and cleaning up	Collect spilled product and place it into uncontaminated containers for recovery or disposal. Verify the chemical compatibility of the receptacles used. Provide well ventilation of the area where the contamination occurred. The contaminated material must be disposed of in accordance with local regulation. Dispose of the product according to the current regulations.
6.4 – Reference to other sections	Refer to sections 8 and 13.

SECTION 7 – Handling and storage

7.1 – Precautions for safe handling	Consider local regulation about safety and health at the workplace. Avoid contact with eyes, skin, clothes. Keep the receptacle closed when not in use. Check leakage and remove it in a safe way. Do not eat, drink or smoke during use. Wash hands after use. Take the clothes off before entering restaurant, workplace canteen, dining hall. Handle in well ventilated place, better if a suction system is provided.
7.2 – Conditions for safe storage, including any incompatibilities	Store in a well ventilated place, away from heat sources, radiations, electrostatic charges' sources and foodstuff. Keep container tightly sealed. Store only in the original container.

7.3 – Specific end use(s)	Information not available.

SECTION 8 – Exposure controls/personal protection

8.1 – Control parameters	Information not available for the product.
8.2 – Exposure controls	Respect safety rules regarding the safe handling of hazardous materials. Eyes/face protection: not necessary. Hands/Skin protection: not necessary. Respiratory protection: not necessary, unless provided for the risk assessment. Thermal hazard: not applicable. Environmental exposure control: the emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9 – Physical and chemical properties

9.1 – Information on basic physical and chemical properties	*a.* appearance	Open cells solid (foam), light brown
	b. odour	Characteristic
	c. olfactory threshold	Not available for the mixture
	d. pH	5.8 – 6.2
	e. melting point/freezing point	Not available for the product
	f. initial boiling point and boiling range	Not available for the product
	g. flashpoint	Not available for the product
	h. evaporation rate	Not available for the product
	i. flammability (solids, gases)	Not available for the product
	j. upper/lower flammability or explosive limits	Not available for the product
	k. vapour pressure	Not applicable
	l. vapour density	Not applicable
	m. relative density	Not available for the product
	n. solubility	Not available for the product
	o. partition coefficient n-octanol/water (K_{ow})	Not applicable
	p. auto-ignition temperature	Not applicable
	q. decomposition temperature	Not available for the product
	r. viscosity	Not applicable
	s. explosive properties	Not available for the product
	t. oxidising properties	Not available for the product
9.2 – Other information	VOC (volatile carbon): 0%	

SECTION 10 – Stability and reactivity

10.1 – Reactivity	Stable if handled according to Section 7.
10.2 – Chemical stability	Stable if handled according to Section 7.

10.3 – Possibility of hazardous reactions	Stable if handled according to Section 7.
10.4 – Conditions to avoid	Stable if handled according to Section 7. Nevertheless, handle the product with care.
10.5 – Incompatible materials	Not known.
10.6 – Hazardous decomposition products	Not available.

SECTION 11 – Toxicological information

11.1 – Information on toxicological effects	a. **Acute toxicity**: The product does not meet the criteria for the classification in this class.
	b. **skin corrosion/skin irritation**: The product does not meet the criteria for the classification in this class.
	c. **serious eye damage/eye irritation:** The product does not meet the criteria for the classification in this class.
	d. **respiratory or skin sensitization:** The product does not meet the criteria for the classification in this class.
	e. **germ cell mutagenicity:** The product does not meet the criteria for the classification in this class.
	f. **cancerogenicity:** The product does not meet the criteria for the classification in this class.
	g. **reproductive toxicity:** The product does not meet the criteria for the classification in this class.
	h. **specific target organ toxicity (STOT) – single exposure:** The product does not meet the criteria for the classification in this class.
	i. **specific target organ toxicity (STOT) – repeated exposure:** The product does not meet the criteria for the classification in this class.
	j. **danger in case of aspiration:** The product does not meet the criteria for the classification in this class.

SECTION 12 – Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1 – Toxicity	Not available for the product.
12.2 – Persistence and degradability	Not available for the product.
12.3 – Bioaccumulative potential	Not available for the product.
12.4 – Mobility in soil	Not available for the product.
12.5 – Results of PBT and vPvB assessment	Not available for the product.
12.6 – Other adverse effects	Not available for the product.

SECTION 13 – Disposal considerations

13.1 – Waste treatment	The management of the waste originated by this product has to be evaluated

methods	depending on the case. Disposal must be carried out by a licensed waste management company, in compliance with national and, where applicable, local legislation. Avoid dispersion of the product in the soil, sewers or water streams. The packages must be sent for recovery or disposal in compliance with national laws on waste management.

SECTION 14 – Transport information

The product is not to be considered as hazardous good for transportation.

14.1 – UN number	Not applicable.
14.2 – UN proper shipping name	Not applicable.
14.3 – Transport hazard class(es)	Not applicable.
14.4 – Packing group	Not applicable.
14.5 – Environmental hazards	Not applicable.
14.6 – Special precautions for user	Not applicable.
14.7 – Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

SECTION 15 – Regulatory information

15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture	Not available.
15.2 – Chemical safety assessment	Any chemical safety assessment for the mixture was not conducted by the supplier.

SECTION 16 – Other information

Note for users

This information has been compiled from sources considered dependable and is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty (either expressed or implied) or guarantee is made to the accuracy, reliability or completeness of the information contained herein.

This information relates to the specific materials designated and may not be valid for such material used in combination with any other materials or in any process. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his particular use.

Acell Srl does not accept liability for any loss or damage that may occur, whether direct, indirect, incidental or consequential, from the use of this information.

Note: this Safety Data Sheet is not mandatory according to GHS Regulations since the product does not meet any criteria of classification or obligation for a SDS fixed by the Regulations.

SDS versions list
Version 1 – First publication

Abbreviations and acronyms
ADN: European agreement concerning the transport of dangerous goods by Inland Waterways
ADR: European agreement concerning the transport of dangerous goods by Road
CAS *[Number]*: Chemical American Society *[Number]*
IATA DGR: International Aviation Transport Association – Dangerous Goods Regulation
ICAO-TI: International Civil Aviation Organization – Technical Instruction.
IMDG Code: International Maritime Dangerous Goods Code
PBT: Persistent, Bioaccumulative, Toxic.
vPvB: Very persistent, very bioaccumulative
RID: European agreement concerning the transport of dangerous goods by Railroad
STOT: specific target on organ toxicity

Bibliography
1) Components' Safety Data Sheets.
2) ECHA website: European Chemical Agency