

United States Environmental Protection Agency Pressed Wood Manufacturing Industry Survey:

Hardboard and Structural Composite Manufacturers

Questionnaire

Survey ID:	
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Please return the completed response no later than Weekday, Month Day, Year.

Completing the survey is voluntary, but it is important that you respond. EPA needs information from all companies (including those making products with low formaldehyde emissions) to determine whether further action is needed, and to understand the impact of potential actions on manufacturers. Your participation will help EPA understand your company and the industry as a whole.

The information collected by EPA may be disclosed to contractors of the Agency. This access will only occur to enable the contractors to perform required tasks for the Agency. These contractors, including staff, will comply with Agency procedures for contractor handling of confidential information collected in connection with TSCA. By returning the survey to EPA, I consent to this disclosure to EPA's contractors.

The public reporting and recordkeeping burden for this collection of information is estimated to average 14 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed questionnaire to this address.

An Agency may not conduct or sponsor, and a person is not required to respond to, a collection of information, unless it displays a currently valid OMB control number.

I. General Manufacturer Identification Information

Please verify that the information that we have for your company is accurate. Please **correct any errors or complete any missing information** on the lines following Questions 1 through 8 below. Please consult appropriate staff at your company as necessary to obtain the correct information.

k red box if response is confiden 1. The name of your company:	tial business information (CBI)
2. The name of your plant:	
	iling address and physical address, if different):
Physical Address Line 1:	
Address Line 2:	
City:	State: ZIP
Mailing Address Line 1:	
Address Line 2:	
City:	State: ZIP
	ultimate parent company that owns this plant:
Addross Line 2:	
City:	State: ZIP
5. Your company's website add	ress:
6. Your contact information:	
Name:	
Title:	
Telephone:	
E-mail:	

Check red box if response is confidential business information (CBI)

Size of ultimate par	ent company:
a. The approximate nu Number:	mber of employees (worldwide) of the <u>ultimate parent company</u> that owns this plant: less than 50 50-99 100-249 250-499 500-999 1,000-1,499 1,500 or more
	109 gross revenue (worldwide) of the <u>ultimate parent company</u> that owns this plant:
8. Size of this plant: a. The approximate to Number:	tal number of employees (full time and part time) in total at this plant: less than 25 25-49 50-99 100-149 150-249 250-499 500 or more
	009 gross revenue of this plant:

II. Primary Pressed Wood Products Manufactured

9. Primary pressed wood products manufactured and production volume.

* Check red box if response is confidential business information (CBI)

	Pressed Wood Category	Check if produced at your plant.	In the 5-year period from 2005 through 2009, what was the average annual total production? (please specify basis).	Provide your plant's rated maximum capacity	To your knowledge, are any of your products used in non-structural applications?
CBI*	(Column 1)	(Column 2)	(Column 3)	(Column 4)	(Column 5)
	Example: Hardboard	\boxtimes	Avg. annual production: 1 million sq. ft	Max capacity: 5 million sq. ft	Yes
	Harabbara		basis: 1/8"	basis: <u>1/8"</u>	
	a. Glulam		Avg. annual production:	Max capacity:	
_			basis:	basis:	
П	b. Hardboard		Avg. annual production:	Max capacity:	
_			basis:	basis:	
П	c. I-Joists		Avg. annual production:	Max capacity:	
			basis:	basis:	
П	d. Oriented Strandboard (OSB)		Avg. annual production:	Max capacity:	
			basis:	basis:	
П	e. Softwood Plywood		Avg. annual production:	Max capacity:	
			basis:	basis:	
	f. Structural Composite Lumber (SCL)*		Avg. annual production:	Max capacity:	
			basis:	basis:	
	g. Other Structural Composite. Please specify:		Avg. annual production:	Max capacity:	
			basis:	basis:	
	Ides laminated veneer oriented strand lumbe		aminated strand lumber (LSL), parallel	strand lumber (PSL),	

Copy #1 of Question 10

10. Resin Types and Certification Standards. Please complete the following table for each pressed wood category produced at your plant. For the purpose of this survey, adhesive/emissions class means a class of pressed wood product that differs from others based on binder/resin technology, formaldehyde emission certification standard category, and/or formaldehyde emission profile. If you produce products in more than one adhesive/emissions class, have changed the please list each class in a separate row. For average and maximum emissions, calculate the average and maximum emissions over one year if possible. If the adhesive/emissions classes of your products in the last five years, or plan to change the adhesive/emissions classes of your products in the next three years, average and maximum emissions cannot be calculated over one year, report the average and maximum emissions based on available data.

Click the button below to have the electronic version of this form automatically generate an additional copy of Question 10. If you are using the paper version of this form, please use the extra copies provided and make additional copies as necessary.

Add Copy

	Pressed Wood Category	Adhesive/ Emissions	Binder/ Resin Category	Emission Certification Standard Category	Indicate when Products in each Adhesive/ Emissions Class were produced and/or whether it will be produced in the future	indicate when Products in each Adhesive/ Emissions Class were produced and/or whether it will be produced in the future	roducts ssive/ ss were id/or ill be	Forma	ldehyde emission le finished boards	Formaldehyde emission levels from finished boards	Share of Vo	Share of Production Volume
CBI	(select from list below) ¹	Class	(Select from list below) ²	(select from list below) ³	Last 5 years?	This Year?	3 years from now?	Average (specify units)	Max (specify units)	Measurement method	This Year (%)	3 years from now (%)
*	(Col 1)	(Col 2)	(Col 3)	(Col 4)	(Col 5)	(Col 6)	(Col 7)	(Col 8)	(Col 9)	(Col 10)	(Col 11)	(Col 12)
	Example: OSB	_	PF	E1	Yes	Yes	Yes	0.5 mg/100g	0.7 mg/100g	EN120 Perforator Test	%0	20%
	Example: OSB	2	IDMp	****	No	No	Yes	0.2 mg/L	0.3mg/L	JISA1901 Japanese Small Chamber Test	100%	%08
1. Press GL HB IJ OSB SWPW SCL OTR	De C T T C C T	Wood Category Abbreviations Glulam Hardboard -Joist Oriented strandboard Structural composite lumber Other structural composites - please specify	S: 2. Binder/Resin Categories: CNSL Cashew MF Melamir MUF Melamir PMDI Diisocya PF PF-MDI Phenol-I PMUF-MDI Phenol-I formald	Castegories: Cashew Nut Shell Liquid Melamine-formaldehyde Melamine-urea-formaldehyde Polymeric Diphenylmethane Diisocyanate Phenol-formaldehyde-MDI Phenol-melamine-urea- formaldehyde-MDI Phenol-urea-formaldehyde-MDI		PUFT PP PVA PVA PVA PVA PVA PVA PVA PVA PVA	Phenol-urea-formaldeh Polyvinyl Acetate Soy-based resins Tannin-based resins Urea-formaldehyde Other - please describe addition of scavenger tr example, "MF+s") addition of catalysts to	Phenol-urea-formaldehyde Tannin Polyvinyl Acetate Soy-based resins Tannin-based resins Urea-formaldehyde Other - please describe addition of scavenger to resin (for example, "MF+s") addition of catalysts to resin addition of other additives to resin		3. Certification Standard Categories: E1/E2	ecify level in t. ecify "*" level i rd category w? uired	able above) n table above as

III. Recent or Planned Changes Resulting in Lower Formaldehyde Emissions

Check red box if response is confidential business information (CBI)

11.	Have you made any recent changes (since 2005) to production processes or raw materials that resulted in lower <u>product</u> formaldehyde emissions?
	☐ Yes, for Glulam:
	☐ The primary purpose for the change was to lower <u>product</u> formaldehyde emissions. ☐ The change was made for other reasons.
	☐ Yes, for Hardboard:
	☐ The primary purpose for the change was to lower <u>product</u> formaldehyde emissions. ☐ The change was made for other reasons.
	☐ Yes, for I-Joists:
	☐ The primary purpose for the change was to lower <u>product</u> formaldehyde emissions. ☐ The change was made for other reasons.
	☐ Yes, for Oriented Strandboard:
	☐ The primary purpose for the change was to lower <u>product</u> formaldehyde emissions. ☐ The change was made for other reasons.
	\square Yes, for Softwood Plywood: \square The primary purpose for the change was to lower <u>product</u> formaldehyde emissions.
	☐ The change was made for other reasons. ☐ Yes, for Structural Composite Lumber:
	☐ The primary purpose for the change was to lower <u>product</u> formaldehyde emissions. ☐ The change was made for other reasons.
	☐ No changes were made since 2005 that resulted in lower <u>product</u> formaldehyde emissions, or product formaldehyde emissions were not measured after changes made since 2005.
12.	Do you plan to make any changes in the next three years to production processes or raw materials expected to result in lower <u>product</u> formaldehyde emissions?
	☐ Yes, for Glulam:
	☐ The primary purpose for the change is to lower <u>product</u> formaldehyde emissions. ☐ The change will be made for other reasons.
	☐ Yes, for Hardboard:
	☐ The primary purpose for the change is to lower <u>product</u> formaldehyde emissions.☐ The change will be made for other reasons.
	☐ Yes, for I-Joists:
	\Box The primary purpose for the change is to lower <u>product</u> formaldehyde emissions. \Box The change will be made for other reasons.
	☐ Yes, for Oriented Strandboard:
	☐ The primary purpose for the change is to lower <u>product</u> formaldehyde emissions. ☐ The change will be made for other reasons.
	☐ Yes, for Softwood Plywood:
	☐ The primary purpose for the change is to lower <u>product</u> formaldehyde emissions. ☐ The change will be made for other reasons.
	☐ Yes, for Structural Composite Lumber:
	☐ The primary purpose for the change is to lower <u>product</u> formaldehyde emissions.☐ The change will be made for other reasons.☐ No changes are planned in the next three years that are expected to result in lower <u>product</u>
	I IND changes are highhed in the next three years that are expected to result in lower product

Copy #1 of Question 13

IV. Issues That May Affect Ability To Reduce Formaldehyde Emissions or Switch to a No Added Formaldehyde Production Technology

Ch

neck	re	ed box if response is confidential business information (CBI)
1	3.	Issues That May Affect Ability To Reduce Formaldehyde Emissions. If you currently use a resin with added formaldehyde, please explain the issues you would need to address in order to <i>reduce formaldehyde emissions</i> (without eliminating added formaldehyde). Complete Question 13 for each <i>pressed wood category</i> manufactured at your plant that has added formaldehyde. If your responses would differ for different products within a pressed wood category, then report them separately.
	[Click the button below to have the electronic version of this form automatically generate an additional copy of Question 13. If you are using the paper version of this form, please use the extra copies provided and make additional copies as necessary.
	a.	Add Copy Please specify the Primary Pressed Wood Category:
		☐ Glulam
		☐ Hardboard
		☐ I-Joists
		☐ Oriented Strandboard
		☐ Softwood Plywood
		☐ Structural Composite Lumber
		Other Structural Composites. Please specify:
	OI	Please explain what changes would be necessary to raw materials used and production technology in reder to reduce the formaldehyde emissions from your products. If possible, please provide information cout the costs that would be associated with these changes.

Expand Answer

Copy #1 of Question 14

14. Issues that May Affect Ability To Switch to NAF Production Technology. If you currently use a resin with added formaldehyde, please explain the issues you would need to address in order to use a *no*-

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Check red box if response is confidential business information (CBI)

added formaldehyde (NAF) resin technology. Complete Question 14 for each pressed wood category manufactured at your plant that has added formaldehyde. If your responses would differ for different products within a pressed wood category, then report them separately. Click the button below to have the electronic version of this form automatically generate an additional copy of Question 14. If you are using the paper version of this form, please use the extra copies provided and make additional copies as necessary. Add Copy a. Please specify the Primary Pressed Wood Category: ☐ Glulam ☐ I-Joists ☐ Oriented Strandboard ☐ Softwood Plywood ☐ Structural Composite Lumber Other Structural Composites. Please specify: b. Please explain what changes would be necessary to raw materials used and production technology in order to adopt a no-added formaldehyde production technology. If possible, please provide information about the costs that would be associated with these changes.

Expand Answer

THE END

Thank you. Please see the sheet labeled *Instructions for* Returning the Completed Questionnaire to EPA for directions on how to return this questionnaire to EPA.