

United States Environmental Protection Agency

Pressed Wood Manufacturing Industry Survey:

Hardboard and Structural Composite Manufacturers

Questionnaire

Survey ID: _____

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 perform required tasks for the Agency. These contractors, including staff, will comply with Agency procedures for confidential information collected in connection with TSCA. By returning the survey to EPA, I consent to this disclosure contractors.

The public reporting and recordkeeping burden for this collection of infor estimated to average 14 hours per response. Send comments on the Agency's this information, the accuracy of the provided burden estimates, and any methods for minimizing respondent burden, including through the use of collection techniques to the Director, Collection Strategies Division, U.S. Enviro Protectio Agency (2822T)]200Pennsylvaniave.,NW, Washington D.C.20460. Include the OMB control number in any correspondence. Do not send th questionnaire to this address.

An Agency may not conduct or sponsor, and a person is not required to respond to, a collection of informati 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 ar complete any missing information** on the lines following Questions 1 through 8 below. Pleas appropriate staff at your company as necessary to obtain the correct information.

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

	2. The name of your plan					
]	3. The address of your pla	ant (mailing address ar	nd physical	addres	s, if dif	ferei
	Physical Address Line 1 <u>:</u>					
	Address Line 2:					
	City:	State:	ZIP			
	Mailing Address Line 1:					
	Address Line 2:					
	City:	State:	ZIP			
	1 The name and address	of the ultimate parent	company t	hat own	s this _l	plant
	Parent Company: Address Line 1:					
	A. The name and address (Parent Company: Address Line 1: Address Line 2:					
	A. The name and address (Parent Company: Address Line 1: Address Line 2: City:	State:	ZIP			
	A. The name and address (Parent Company: Address Line 1: Address Line 2: City: 5. Your company's website	State:	ZIP			
	A. The name and address (Parent Company: Address Line 1: Address Line 2: City: 5. Your company's website 6. Your contact information Name:	State:				
	A. The name and address (Parent Company: Address Line 1: Address Line 2: City: 5. Your company's website 6. Your contact information Name: Title:	State:				

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Check red box if response is confidential business information (CBI) Approval Expires XX/XX/X

7. Size of ultimate parent company:

- a. The approximate number of employees (worldwide) of the ultimate parent company that owns the
 - Number: \square less than 50
 - 50-99
 - □ 100-249
 - 250-499
 - □ 500-999
 - □ 1,000-1,499
 - □ 1,500 or more
- b. The approximate 2009 gross revenue (worldwide) of the ultimate parent company that owns this Gross Revenue (\$): less than \$1 million

□ \$1-\$49 million

□ \$50-\$99 million

□ \$100-\$499 million

□ \$500 million or more

8. Size of this plant:

- a. The approximate total number of employees (full time and part time) in total at this plant: □ less than 25
 - Number:
 - 25-49
 - 50-99
 - □ 100-149
 - □ 150-249
 - □ 250-499
 - □ 500 or more
 - b. The approximate 2009 gross revenue of this plant: Gross Revenue (5): less than \$1 million
 - □ \$1-\$49 million
 - □ \$50-\$99 million
 - □ \$100-\$499 million
 - □ \$500 million or more

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 I through 2009, what was average annual total production? (please specify basis)	2 005 vide your plan named maximum cap	t's To your a kity wledge, are any of your products used in non-structural applications?
CBI*	(Column 1)	(Column 2	2) (Column 3)	(Column 4)	(Column 5)
	Example: Hardboard	\boxtimes	Avg. annual production: 1 million sq. ft	Max capacity: 5 million sq. ft	Yes
			basis1/8"	basis 1/8 "	
	a. Glulam		Avg. annual production:	Max capacity:	
			basis:	basis:	
	b. Hardboard		Avg. annual production:	Max capacity:	
			basis:	basis:	
	c. I-Joists		Avg. annual production:	Max capacity:	
			basis:	basis:	
	d. Oriented Strandboard (OSB)	SB)	Avg. annual production:	Max capacity:	
			basis:	basis:	
	e. Softwood Plywood		Avg. annual production:	Max capacity:	
			basis:	basis:	
	f. Structural Composite Lumbe (SCL)*	er	Avg. annual production:	Max capacity:	
		-	basis:	basis:	
	g. Other Structural Composite. Please specify:		Avg. annual production:	Max capacity:	
			basis:	basis:	
* Incl and	udes laminated ve oriented strand lu	eneer lumber umber (OSL).	(LVL), laminated strand lumber	(LSL), parallel strand lum	ber (PSL),

Copy #1 of Question 10

OMB Control No. 20XX-XX> Approval Expires XX/XX/X 10. Resin Types and Certification Standards. Please complete the following table for each pressed wood category produced at your p this survey, adhesive/emissions class means a class of pressed wood product that differs from others based on binder/resin technology, for certification standard category, and/or formaldehyde emission profile. If you produce products in more than one adhesive/emissions class, l adhesive/emissions classes of your products in the last five years, or plan to change the adhesive/emissions classes of your products in the please list each class in a separate row. For average and maximum emissions, calculate the average and maximum emissions over one yea 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 this form, please use the extra copies provided and make additional copies as necessary.

4	Add Copy												
*	Check red box	x if response	e is confiden	tial business info	rmation	(CBI)							
					Indicate in ead Emissid	e wher ch Adh ons Cl	n Prodi tesive/ ass we	ucts / ªre		<u> </u>			
	Pressed Wo Category	o di dhesive/ Emissions	Binder/ Resi	Emission n Certification Standard Catego	prodi whet	uced a her it ed in t	will be the fut	e Forma ure	ıldehyde ∉ finished	emission levels fron I boards	Share of I Volui	Producti me	u
((select fro	m Class	(Select from list beloଝି)	n (select from lis below ³)	stLast 5 years?`	This Year?	3 years from	Average (specify units)	Max (specify units	Measurement metho	Jühis Year (%) fr	3 years rom now	
* 5	(Col 1)	(Col 2)	(Col 3)	(Col 4)	(Col 5)(Col 6)) (Col 8)	(Col 9)	(Col 10)	(Col 11) ((%) (Col 12)	
	Example: OSE	1	ΡF	E1	Yes	Yes	Yes	0.5 mg/100g	0.7 mg/100	g EN120 Perforator Test	t 0%	20%	
	Example: OSE	8	pMDI	****	No	No	Yes	0.2 mg/L	0.3mg/L	JISA1901 Japanese Smi Chamber Test	all_00%	80%	
н.	Pressed Wood C	ategory Abbre	ev i ð tið inst er/Res	in Categories:					3. Certi	fication Standard Categ	jories:		
HB SSS HB SSS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS HB SS SS SS SS SS SS SS SS SS SS SS SS SS	Glulam Hardboard I-Joist B Oriented str IPW Softwood ply L Structural c R Other structu	andboard ywood :omposite lumbe ural composites	CNSL MF MUF PMDI PF-MDI	Cashew Nut Shell Liq Melamine-formaldeh Melamine-urea-forma Polymeric Diphenylm Diisocyanate Phenol-formaldehyde Phenol-formaldehyde	uuid PU yde PV aldehydeSB hethane TB UF MDI +s	HET Phe R A Pole I Tar Cothe Othe Othe add	enol-uree yvinyl Ac r-based r vinin-base sa-formal ser - plea lition of s	a-formaldehydé cetate resins ad resins Idehyde ise describe scavenger to re	e Tannir E1/E2 F HUD O None esin (fo <mark>,N/A</mark>	European Standard (s Japanese Standard (s HUD Standard Other - please specify No certification stand met/will be met Not applicable/not rec	specify level specify "*" le y fard category quired	in table abc vel in table / was	ove) above
	please speci	ify	PMUF-MDI	Phenol-melamine-ure	-95	e X e	√" elom	1F+c")					

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addition of other additives to resin

addition of catalysts to resin

тогплацаелуце-мыл Phenol-urea-formaldehyde-MD<mark>Ja</mark>

PUF-MD

formaldehyde-MDI

example, "MF+s")

III. Recent or Planned Changes Resulting in Lower Forma Emissions

Che	eck red box if response is confidential business information (CBI)
	11. Have you made any recent changes (since 2005) to production processes or raw ma resulted in lower product formaldehyde emissions?
	🗌 Yes, for Glulam:
	 The primary purpose for the change was to lower product formaldehyde emissions. The change was made for other reasons.
	The primary purpose for the change was <u>to lower product</u> formaldehyde emissions.
	 Yes, for I-Joists: The primary purpose for the change was to lower product formaldehyde emissions. The change was made for other reasons.
	 Yes, for Oriented Strandboard: The primary purpose for the change was to lower product formaldehyde emissions. The change was made for other reasons.
	 Yes, for Softwood Plywood: The primary purpose for the change was to lower product formaldehyde emissions. The change was made for other reasons.
	Yes, for Structural Composite Lumber: The primary purpose for the change was <u>to lower product formaldehyde emissions</u> . The change was made for other reasons.
	No changes were made since 2005 that resulte <u>d in lower product formaldehyde emissions</u> , 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 of materials expected to result <u>in low</u> er product formaldehyde emissions?
	🗌 Yes, for Glulam:
	 The primary purpose for the change is to lower product formaldehyde emissions. The change will be made for other reasons.
	 The primary purpose for the change is to lower product formaldehyde emissions. The change will be made for other reasons.
	 Yes, for I-Joists: The primary purpose for the change is to lower product formaldehyde emissions. The change will be made for other reasons.
	 Yes, for Oriented Strandboard: The primary purpose for the change is to lower product formaldehyde emissions. The change will be made for other reasons.
	 Yes, for Softwood Plywood: The primary purpose for the change is to lower product formaldehyde emissions. The change will be made for other reasons.
	☐ Yes, for Structural Composite Lumber: ☐ The primary purpose for the change is to lower product 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 product formaldehyde emissions.

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

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

13. Issues That May Affect Ability To Reduce Formaldehyde Emissions. If you currently use

added formaldehyde, please explain the issues you would need to address in order to *reduce formaldehyde emissions* (without eliminating added formaldehyde). Complete Question 13 for e *pressed wood category* manufactured at your plant that has added formaldehyde. If your respon 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 addi 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.

Add Copy

- a. Please specify the Primary Pressed Wood Category:
 - 🗌 Glulam

Hardboard

🗌 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 technol order to reduce the formaldehyde emissions from your products. If possible, please provide inform about the costs that would be associated with these changes.

Expand Answer

Copy #1 of Question 14

- Check red box if response is confidential business information (CBI)
 - 14. Issues that May Affect Ability To Switch to NAF Production Technology. If you current with added formaldehyde, please explain the issues you would need to address in order to use a added formaldehyde (NAF) resin technology. Complete Question 14 for each pressed wood cate manufactured at your plant that has added formaldehyde. If your responses would differ for diffe 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 addi 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

□ Hardboard

□ 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 technol order to adopt a no-added formaldehyde production technology. If possible, please provide inform 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.