

Material Safety Data Sheet  
 May be used to comply with  
 OSHA's Hazard Communication Standard  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements

U.S. Department of Labor  
 Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No 1218-0072



IDENTITY (As Used on Label and List)

Plastic Lumber

Note: Blank spaces are not permitted if any item is not applicable, or no information is available, the space must be marked to indicate that.

Section 1

Manufacturer's Name

Plastic Recycling - Lumber

Emergency Telephone Number

Address (Number, Street, City, State, and ZIP Code)

Telephone Number for Information

Date Prepared

06/27/09

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH	TLV	Other Limits Recommended	% (optional)
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N/A

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	.92 - .95
Vapor Pressure (mm Hg.)	N/A	Melting Point	225° C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solution in Water	0		
Appearance and Odor	No Odor--		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	N/A	UEL	N/A
Extinguishing Media	Water--Foam--CO <sub>2</sub>						
Special Fire Fighting Procedures	None						
Unusual Fire and Explosion Hazards	None						

(produce locally)

OSHA 174 Sept. 1985

**Section V - Reactivity Data**

Stability	Unstable		Conditions to Avoid	Very Strong Oxidizing Agents
	Stable	X		
Incompatibility ( <i>Materials to Avoid</i> )			None Known	
Hazardous Decomposition or Byproducts			None	
Hazardous Polymerization	May Occur		Conditions to Avoid	
	Will Not Occur	X		

**Section VI - Health Hazard Data**

Route(s) of Entry:	Inhalation?	No	Skin?	No	Ingestion?	Yes
Health Hazards ( <i>Acute and Chronic</i> )		None				
Carcinogenicity:	None	NTP?		IARC Monographs?		OSHA Regulated?
Signs and Symptoms of Exposure		None				
Medical Conditions Generally Aggravated by Exposure		None				
Emergency and First Aid Procedures		None				

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled	As The End Product (Lumber)--Collect and Restack
	Raw Material--Collect Back into Box for Use
	Saw Swarf (Dust)--Brush Up and Dispose to Landfill
Waste Disposal Method	Dispose to Sanitary Landfill
Precautions to Be Taken in Handling and Storing	No Special Precautions--Good Housekeeping Practice Should Be Followed
Other Precautions	None

**Section VIII - Control Measures**

Respiratory Protection ( <i>Specify Type</i> )		N/A	
Ventilation	Local Exhaust	When Cutting	Special None
	Mechanical ( <i>General</i> )	N/A	Other None
Protective Gloves		When Cutting	
Other Protective Clothing or Equipment		None	
Work/Hygienic Practices		Normal Hygiene	

## Flexure

Job# 03006



Laboratory	Material ID	Date
Materials Testing Service	Brown 2x4 nominal x 26"	5/30/03

Conditioning Procedure	ASTM Test	Test Method	Span-to-Depth Ratio
40 hr @ 73.4 ± 3.6°F	D 6109 - 97	A	16:1

Date	Sample	Depth	Width	Span	Rate	Peak Load	Max Def	m	E(psi)
5/30/03	1	1.457	3.450	24.25	0.747	389.0	2.756	213.30	5.99E+04
5/30/03	2	1.452	3.449	24.25	0.749	379.0	2.693	212.20	6.02E+04
5/30/03	3	1.456	3.448	24.25	0.747	387.5	2.751	221.40	6.23E+04
5/30/03	4	1.450	3.450	24.25	0.750	374.0	2.699	217.30	6.19E+04
5/30/03	5	1.443	3.448	24.25	0.754	388.7	2.754	221.80	6.41E+04
								Avg.	6.17E+04
								Std. Dev.	1723.029

Bulk Density

Job# 03005



Laboratory	Materials Testing Service	Material ID	Tan 2x4 nominal x 4"	Date	5/23/03
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Conditioning Procedure	40 hr @ 73.4 ± 3.6°F	ASTM Test	D 6111-97	Balance	Ohaus Model 1119
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Date	Sample	Temperature	Water	Weight of Specimen (g)	Weight of Cage, etc. (g)	Weight of Specimen, Cage, etc. (g)	Weight of Specimen, Cage, etc. in Water (g)	Weight of Specimen, Cage, etc. in Water (g)	Bulk Specific Gravity (sp gr 23/23°C)	Bulk Density (g/cm <sup>3</sup> )	
05/23/03	T1	22.3 C		296	267	563	243	215	0.914	0.911	
05/23/03	T2	22.3 C		295	267	562	243	216	0.916	0.914	
05/23/03	T3	22.3 C		297	267	564	243	218	0.922	0.920	
05/23/03	T4	22.3 C		300	267	567	243	220	0.929	0.927	
05/23/03	T5	22.3 C		297	267	564	243	214	0.911	0.909	
									Mean	0.9184	0.9162
									Std. Dev.	0.0072	0.0072

Compression

Job# 03006



Laboratory	Materials Testing Service	Material ID	Black Round 4" x 8"	ASTM Test	D 6108-97
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Conditioning Procedure	40 hr @ 73.4 ± 3.6°F	Date	5/28/03	Load Rate	.224 in/min
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Date	Test	Sample	Dia.	Width	Area	Length	Max Load (lb)	Compressive Strength (psi)
5/28/03	D6108-97	B1	3.989	5.177	12.497	8	21060	1685.2
5/28/03	D6108-97	B2	3.994	5.183	12.529	8	21380	1706.5
5/28/03	D6108-97	B3	3.993	5.222	12.522	8	22145	1768.4
5/28/03	D6108-97	B4	3.998	5.177	12.554	8	22320	1777.9
5/28/03	D6108-97	B5	3.986	5.190	12.479	8	21935	1757.8
		Mean					21768	1739
		Std. Dev.					531	41

Thermal Expansion

Job# 03006



Date	ASTM Test
5/23/03	D 6341 - 98

Conditioning Procedure
48 hr @ 140 ± 3.6°F & 48 hr @ 73.4 ± 3.6°F & 48 hr @ -30 ± 3.6°F

Test Data

Specimen	Sample	Temp. (F)	Length
Brown	1	-28.0	11.694
	2	-28.0	11.692
	3	-28.0	11.734
	4	-28.0	11.710
	5	-28.0	11.706

Brown	1	71.2	11.820
	2	71.2	11.811
	3	71.2	11.855
	4	71.2	11.827
	5	71.2	11.821

Brown	1	142.3	11.865
	2	142.3	11.859
	3	142.3	11.901
	4	142.3	11.876
	5	142.3	11.869

Test Results

Sample	Coefficient of Linear Thermal Expansion
a	0.0000850
b	0.0000830
c	0.0000827
d	0.0000824
e	0.0000810

Avg ((in./in.)/F)	0.0000828
Std Dev	0.0000014