

SAFETY DATA SHEET PLYWOOD PRODUCTS BONDED WITH PHENOL-FORMALDEHYDE

1 IDENTIFICATION		
Product	Araucoply	
Synonyms	Radiata Pine Plywood	
	Softwood Plywood	
Recommended use	Building Materials - Decorative, Furniture, General Construction	
Address	Parletes Araduo S.A. Autonista Itata (m. 21 Banquil, Chile	
Phone	56-41-2862700	
Website	www.araucoply.cl	
2 HAZARD IDENTIFICATION		
Signal wood Danger		
NOTE	This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous as the result of downstream activities (e.g. cuttingm sanding) wich creates small particles resulting in the potential hazards as described below.	
Classification of the substance or mixt Dust	t ure and hazard statements: Wood dust can irritate eyes and breathing passages. Nasal dryness, coughing, sneezing and wheezing as a result of inhalation.	
Formaldehyde	These products release very low amounts of formaldehyde. Formaldehyde may be irritating to the eyes, nose through and skin. It may aggravate existing respiratory problems and cause allergies in certain susceptible persons. Formaldehyde is listed by IARC , NTP and OSHA as Probable Human Carcinogen.	
Routes of entry	Irritation. Skin contact with wood may evoke allergic contact dermatitis.	
Label elements	DANGER	
Precautionary Statement(s): Prevention Statements	 P243: Take precautionary measures against static discharge. P260 and P261: Avoid breathing dust. P280: Wear protective gloves/protective clothing/eye protection. P285: In case of inadequate ventilation wear respiratory protection. 	
Response Statements	 P302 - P352: If on skin: wash plenty of soap and water. P313: If skin irritation or rash occurs: Get medical advice/attention. P304 - P340: If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 - P338: If in eyes: rinse cautionsly for several minutes. Remove contact lenses if present and easy to do. P313: If eye irritation persists: Get medical advice/attention. P308 - P313: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P362 and P363: Take off contaminated clothing and wash before reuse. 	
Disposal	P501: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.	
3 COMPOSITION/INFORMATION ON	INGREDIENTS	
AraucoPly is composed of wood and p	ihenol-formaldehvde resin:	
Wood Polymeric Phenol-formaldehyde	CAS: none 80-99% CAS: 9003-35-4 20-1%	
Chemical or common name Chemical Formula	Phenol-Formaldehyde resin C8H6O2	
4FIRST-AID MEASURES		
Emergency and First Aid Procedure: 1 Inhalation	Gaseous formaldehyde may cause temporary irritation to eyes , nose and throat. Wood dust may cause respiratory sensitization and/or irritation. If inhale, remove to fresh air. Get medical advice if persistent irritation, severe coughing or breathing difficulty occurs.	
2 Skin contant	Both formaldehyde and various species of wood may cause allergic contact dermatitis in sensitized individual. In case of contact, flush skin with plenty of water for at least 15 minute. Remove contamined clothing and footwear. Get medical attention if rash or persistent irritation or dermatitis occurs. Wash clothing before reuse.	

Gaseous formaldehyde may cause temporary ittitation or a burning sensation. In case of contacl inmediately flush eyes with plenty of water for al least 15 minute, holding lids apart to ensure flushing of each entire eye. Get medical attention inmediately.

5 FIRE-FIGHTING MEASURES	
Extinguishing Media Ignition Temperature Unusual Fire and Explosion Hazards Hazardous Combustion Products Firefighting Procedures	Water, Carbon Dioxide, Sand. 400°F - 500°F (204°C - 260°C) (Direct Flame) Board dust is strongly explosive therefore there is hazard on the direct contact of dust with ignition sources and in closed areas Avoid dust accumulations. Burning of Plywood can result in carbon monoxide, carbon dioxide, aliphatic aldehydes, including formaldehyde, resin acids, terpenes anc polycyclic aromatic hydrocarbons. oxides of nitrogen, aldehydes, cyanides and other hazardous gases and particles. No special procedures.
6ACCIDENTAL RELEASE MEASURES	
Material released or spilled	Vaccum, sweep or shovel to minimize dust generation. Provide adequate ventilation
Waste disposal methods	Revovered wood dust in container for proper disposal.
7 HANDLING AND STORAGE	
Handling advice	Avoid skin and eye contact. Avoid breathing dust.
Storage advice	Store in a cool, dry and well ventilated place way from open flame & sparks.
8 EXPOSURE CONTROL MEASURES/F	ERSONAL PROTECTION
Exposure Limits: Gaseous Formaldehyde	OSHA PEL -TWA :0,75 ppmOSHA PEL -STEL:2 ppmACGIH TLV-TWA :0,3 ppm
Engineering Measures/Controls: Local exhaust Mechanical (General)	Provide local exhaust when machining products. Provide general ventilation in processing and storage areas as needed so that exposure limits are met
Personal Protective Equipment: Respiratory protection Protective Gloves Eye protection Special	None usually required if dust and folmaldehyde concentrations are within acceptable limits. Approvec dus/formaldehyde respiratory protector and goggles are recommended when the allowable exposure limits may be exceeded. Not requiered. Cloth, canvas, or leather gloves are recommended. Goggles or safety glasses are recommended when machining products. Special-contained breathing apparatus (SCBA) recomended when fighting fire.
9 PHYSICAL AND CHEMICAL PROPER	TIES
Physical state Boiling Point (° F) Vapor Pressure (MMHg) Vapor Density (Air=1) Specific Gravity (H2O=1) Evaporation rate Solubility in Water % Volatiles by Volumen	Solid Not Applicable Not Applicable 0,53 Not Applicable Insoluble in water Not Applicable
10STABILITY AND REACTIVITY	
Stability Incompatibility (materials to avoid)	The product is stable Avoid direct flame Product may ignite at temperatures in excees of 204 ºC.
11TOXICOLOGICAL INFORMATION	
Route(s) of entry/exposure	Inhalation, Skin, Eye (Dust)
Components: Formaldehyde 50-00-0	Acute Toxicity: Ingestion/Oral-Rat LDS0 • 100 mg/kg; Inhalation-Rat LCS0 • 203 mg/m ³ ; Peripheral Nerve and Sensation Spastic paralysis with or without sensory change; Behavioral: Convulsions or effect on seizure threshold ; Behavioral: Excitement ; Irritation: Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Multi-dose Toxicity : Ingestion/Oral-Rat TDLo • 500 mg/kg 20 Day(s)-Intermittent; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Transaminases ; Inhalation-Mouse TCLo • 400 ppb 12 Week(s)-Intermittent; Lungs, Thorax, or Respiration Other changes ; Endocrine: Changes in spleen weight ; Biochemical:Metabolism (intermediary) Other proteins; Mutagen : Micronucleus test • Inhalation-Human • 2 ppm 15 Minute(s); Micronucleus test • Inhalation-Human • 0.1 ppm 8 Hour(s); Reproductive : Inhalation-Rat TCLo • 12 µg/m ³ 24 Hour(s)(15D pre/1-22D preg); Reproductive Effects:Effects on Newborn Growth statistics (e.g., reduced weight gain) ; Reproductive Effects:Effects on Newborn Other postnatal measures or effects
Potential Health Effects: Carcinogenic Effects	Wood dust is listed by NTP known to be a Human Carcinogen (10th Report), IARC Monographs: Wood dust, Group 1 - IARC Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma of the nasal cavities and paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and cancers of the hypopharynx, oropharynx, lymphatic and hematopoietic systems, lungs, stomach, colon or rectum.

12ECOLOGICAL INFORMATION		
Toxicity Persistance and degradability Bioaccumulation Mobility in soil	This product is not expected to have ecological effects on the environment The product would be expected to be biodegradable Not expected to bioaccumulated Not Available	
13 DISPOSAL CONSIDERATION		
Waste information	Refer to local regulations. Normally suitable for disposal at approved land waste site	
14TRANSPORT INFORMATION		
US DOT Information	This material is not a DOT hazardous material.	
Canadian Transportation of Dangerous Goods (TDG):	These products are not listed as a hazardous material.	
15REGULATORY INFORMATION		
TSCA CERCLA DSL OSHA SARA Hazard Classifications FDA	Phenol-formaldehyde resin is on the TSCA chemical substance inventory. Formladehyde (100 lbs RQ) is on the CERCLA chemical substance inventory. Formladehyde is on the Canadian Domestic Substance List. Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, wood and resin dust generated by sawing, sanding or machining these products may be hazardous. Workplace exposure to formaldehyde is specifically regulates under 29 CFR 1910.1048. Acute, Chronic Not intended for use as a food additive or indirect food contact item.	
WHIMIS Classification	Wood and products made from wood are exempt from WHIMIS per the Hazardous Products Act. However, wood dust is considered to be a controlled product: D2A (wood dust and formaldehyde: IARC Group 1).	

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KEY / LEGEND:

American Conference of Governmental Industrial Hygienists
Chemical Abstract Services Number
Comprehensive Environmental Response, Compensation and Liability Act
Code of Federal Regulations
Department of Transportation
Domestic Substance List
Food and Drug Administration
International Agency for Research on Cancer
National Toxicology Program
Occupational Safety and Health Administration
Permissible Exsposure Limit.
Short Term Exposure List
Threshold Limit Value
Toxic Substance Control Act
Time Weighted Average
Workplace Hazardous Materials Information System