



SECTION 1 - PRODUCT and COMPANY INFORMATION

Product Identifier: **DIMENSIONAL LUMBER – SOFTWOODS (NON CEDAR)**
 General Use: Residential and commercial construction applications.
 Product Description: Non-treated dimensional lumber products manufactured from softwoods
 MANUFACTURER: SilvaStar Forest Products
 4395 Curtis Road
 Bellingham, WA 98226
 (360) 647-1471 (Sales Office)
 EMERGENCY: (855) 326-0155

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	PERCENT	EXPOSURE LIMITS IN AIR (1)			
			ACGIH - TLV		FEDERAL OSHA-PEL	
			TWA mg/m ³	STEL mg/m ³	TWA mg/m ³	STEL mg/m ³
Softwoods wood dust	NA	100%	1 mg/m ³ Inhalable Dust	10 mg/m ³	15 mg/m ³	NA

- (1) Although OSHA's air contaminant rule, including OSHA's wood dust PEL's, was struck down in AFL-CIO v. OSHA, 965 f. 2d 962 (11th Cir. 1992), a number of states have incorporated those provisions in their state plans. Additionally, OSHA has announced that it may cite companies under the OSHA Act General Duty Clause under appropriate circumstances for non-compliance with these levels.
- (2)

SECTION 3 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: This product presents limited hazards in its solid form. Sawing, sanding or otherwise machining this product can produce wood dust, which may present a flammability and/or explosion hazard. Exposure to wood dust may cause eye, nose and throat irritation.

POTENTIAL HEALTH HAZARDS:

ACUTE

INHALATION: The primary health hazard posed from machining this product is thought to be due to inhaling wood dust. Inhaling wood dust may cause dryness, irritation, obstruction and may aggravate preexisting respiratory condition or allergies. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported.

EYE CONTACT: Wood dusts from this product can cause mechanical irritation.

SKIN CONTACT: Various species of wood dust may evoke allergic contact dermatitis in sensitized individuals.

INGESTION: Not applicable under normal conditions.

CHRONIC

Wood Dust, depending on species, may cause dermatitis, respiratory sensitization and/or irritation upon prolonged, repetitive exposure. The International Agency for Research on Cancer (IARC) classifies wood dust as a carcinogen to Humans (Group 1), and The National Toxicology Program (NTP) classifies wood dust as known to be a human carcinogen. These classifications are primarily based on studies that evaluated the increased risk in occurrences of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to hardwood dust. Sufficient evidence was not found to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hemotopietic systems, stomach, colon or rectum with exposure to wood dust. Prolonged eye exposure may cause reversible corneal damage.

Sources: Volume 62 Wood Dust IARC Monograph, 1995; 10th Biennial Report on Carcinogens, NTP, 2002.

SECTION 4 - FIRST AID MEASURES

INHALATION: Wood dust may cause unpleasant deposits/obstructions in the nasal passages resulting in dryness of nose, dry cough, sneezing and headaches. Remove to fresh air. Obtain medical attention if persistent irritation, severe coughing or breathing difficulty occur.

EYE CONTACT: Wood dusts generated from this product may cause mechanical irritation. Treat dust in eye as foreign object. Flush eyes with large amounts of water to remove dust particles. Obtain medical attention if irritation or wood splinters exist.

SKIN CONTACT: Wood dust of certain species can elicit allergic contact dermatitis in sensitized individuals, as well as erythema and hives. Obtain medical help if rash or irritation persists or dermatitis occurs.

INGESTION: Not applicable under normal use.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory and eye problems, dermatitis and other skin disorders can be aggravated by exposures to dusts of this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS: Fire fighting procedures for a Class A fire should be followed. Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Remove burned, charred or wet dust to open secure area after fire is extinguished.

FLASH POINT: NAP

FLAMMABLE LIMITS:

LEL: See below under "UNUSUAL FIRE AND EXPLOSION HAZARDS"

UEL: NAP

AUTOIGNITION TEMPERATURE (F OR C): 400 to 500 DEG. F.

FIRE EXTINGUISHING MEDIA: Water, Carbon Dioxide, Foam, Dry Chemical, Halon and any Class "ABC" extinguishing media.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Depending on moisture content and more importantly, particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 Grams (40,000 Milligrams) of dust per cubic meter of air is often used as the LEL for wood dusts.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

LAND SPILL: Generally not applicable, however if a spill occurs the applicable federal, state, provincial and local regulations must be followed.

WATER SPILL: Generally not applicable, however if a spill occurs the applicable federal, state, provincial and local regulations must be followed.

SECTION 7 - HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Wash skin that comes in contact with product after handling. Do not eat, drink or smoke while handling or working with this product or in areas where there are dusts of this product.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: No special handling precautions are required. Keep away from sources of ignition.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Sawing, sanding, or machining of this could produce wood dust. Provide adequate general and local exhaust ventilation to keep airborne contaminant concentrations below the safe exposure limits.

PERSONAL PROTECTION (If necessary, refer to the appropriate OSHA or Canadian PPE Standards)

RESPIRATORY PROTECTION: None needed under normal use. Wear NIOSH/MSHA approved respiratory protection when safe exposure limits are exceeded.

EYE PROTECTION: Safety glasses with side shields recommended when re-manufacturing or otherwise working with this product.

PROTECTIVE CLOTHING: Other protective equipment such as puncture resistant gloves and outer garments may be needed depending on how product is used and/or dust conditions presents.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: NAP

VAPOR DENSITY: NAP

SPECIFIC GRAVITY: NAP

EVAPORATION RATE: NAP

SOLUBILITY IN WATER: Insoluble

MELTING/FREEZING POINT: NAP

pH: NAP

PHYSICAL STATE: Solid

BOILING POINT: NAP

APPEARANCE AND ODOR Color and odor depend on wood species and time since dust was generated

VISCOSITY: NAP

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

REACTIVITY: Avoid product contact with any temperature sources that could induce thermal decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: Thermal and/or thermal-oxidative decomposition can produce irritating and toxic fumes and gases, including carbon oxides, aldehydes and organic acids.

SECTION 11 - TOXICOLOGY INFORMATION

TOXICITY DATA: Currently there are no toxicological data for wood dust.

CARCINOGENICITY: Wood dust is not considered a potential carcinogen by OSHA. IARC classifies wood dust as a carcinogen to Humans (Group 1). NTP classifies wood dust as known to be a human carcinogen. These classifications are primarily based on studies that evaluated the increased risk in occurrences of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to hardwood dust. Sufficient evidence was not found to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hemotopoietic systems, stomach, colon or rectum with exposure to wood dust.

IRRITANCY OF PRODUCT: This product may be irritating to contaminated eyes, skin and respiratory system.

SENSITIZATION TO THE PRODUCT: Some individuals can become sensitized to wood dusts and develop allergy-like symptoms upon repeated exposure.

REPRODUCTIVE TOXICITY INFORMATION: This product is not reported to cause reproductive effects in humans.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY: This product will eventually decompose if left in the environment.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS: This product is not expected to cause harm to plants or animals in the environment.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product is not expected to cause harm in an aquatic environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

This product is recyclable. It is, however, the user's responsibility to determine at the time of disposal whether your product meets any applicable criteria for hazardous waste disposal. Disposal must follow applicable federal, state, provincial and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

This product is not considered hazardous as defined by 49 CFR 172.101 by the U.S. Department of Transportation.

PROPER SHIPPING NAME: Not Regulated
HAZARD CLASS NUMBER AND DESCRIPTION: NAP
UN IDENTIFICATION NUMBER: NAP
PACKAGING GROUP: NAP
DOT LABEL (S) REQUIRED: NAP
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): NAP
MARINE POLLUTANT: No component of this product is listed as a marine pollutant by the DOT (49 CFR 172.101, Appendix B.)
TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOOD REGULATIONS: This product is not considered as dangerous goods, per regulations of Transport Canada.

SECTION 15 - REGULATORY INFORMATION

U.S. OSHA:

This product, and/or by-products of machining this product, are regulated by the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. EPA:

Consult applicable local, state, and federal environmental regulations concerning this product and/or by-products.

OTHER U.S. FEDERAL REGULATIONS:

During releases of this product, the rules of the Federal Water Pollution Control Act may be applicable.

ADDITIONAL CANADIAN REGULATIONS:

CANADIAN WHMIS SYMBOL: (For Dusts) D2A; Materials Causing Other Toxic Effects (Chronic Effects Sensitization and Possible Carcinogenic Effects)

SECTION 16 - OTHER INFORMATION

The information contained in this Material Safety Data Sheet is based on the experience of occupational health and safety professionals and comes from sources believed to be accurate or otherwise technically correct. It is the user's responsibility to determine if this information is suitable for their applications and to follow safety precautions as may be necessary. The user has the responsibility to make sure that this sheet is the most up-to-date issue.

Definition of Common Terms:

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS#	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mine Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute for Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Health and Safety Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)