

TIMBER HOLDINGS
LTD.™

IRON WOODS

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MATERIAL SAFETY DATA SHEET WOOD DUST

TRADE NAME: Wood Dust
SYNONYMS: None
CAS. NO.: None
DESCRIPTION: Particles generated by any manual or mechanical cutting or abrasion process performed on wood.

PHYSICAL DATA

Boiling Point Not applicable

Specific Gravity Δ
Variable. Dependent on wood species and moisture content.

Vapor Density Not Applicable

% Volatiles of Vol. Not Applicable

Melting Point..... Not Applicable

Vapor Pressure..... Not Applicable

Solubility in H₂O (% by wt.) ... Insoluble

Evaporation Rate (Butyl Acetate=1)..... Not Applicable

pH..... Not Applicable

Appearance & Odor.....
Light to dark colored granular solid. Color and odor are dependent on the wood species and time since dust was generated.

FIRE & EXPLOSION DATA

Flash Point Not Applicable

Auto ignition Temperature.....
Variable. Typically 400-500 °F

Explosive Limits in Air .. 40 grams M³ (LEL)

Extinguishing Media Water, CO₂, Sand

Special Fire Fighting Procedures
Wet down with water. Wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Remove burned or wet dust to open area after fire is extinguished.

Unusual Fire & Explosion Hazard

Strong to severe explosion hazard. If wood dust "cloud" contacts an ignition source.

HEALTH EFFECTS DATA

Exposure Limit.....

ACGIH TLV (R)

TWA-5.0 mg/m³

STEL (15 min.)-10 mg/m³
softwood.

TWA-1.0 mg/m³

Certain hardwoods such as beech and oak.

OSHA PEL: (For OSHA PELs, see footnote 1 below)

TWA-5.0 mg/m³

STEL (15 min.)-10 mg/m³

All softwoods, hardwoods, except Western Red Cedar.

Western Red Cedar:

TWA-2.5 mg/m

Skin & Eye Contact.....

Eye Irritation & Dermatitis. Wood dust can cause eye irritation. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals.

Ingestion..... Not Applicable

Skin Absorption..... Not known to occur.

Inhalation May cause; Nasal dryness, irritation & obstruction, coughing, wheezing & sneezing. Sinusitis & prolonged colds have also been reported.

Chronic Effects May cause; Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. Prolonged exposure to wood dust has been reported by some observers to be associated with nasal cancer. Wood dust is not listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

1 Although OSHA's Air Contaminants Rule, including OSHA's wood dust PELs, was struck down in AFL-CIO v. OSHA, 965 F.2d 982 (11th Cir. 1992), a number of states have incorporated those

MATERIAL SAFETY DATA SHEET

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REACTIVE DATA

Conditions Contributing to Instability.....
Stable under normal conditions
Incompatibility.....
Avoid contact with oxidizing agents, drying oils & open flame. Product may ignite at temperatures in excess of 400 °F.
Hazardous Decomposition Products.....
Thermal-oxidative degradation of wood produces: Irritating & toxic fumes & gases, including CO, aldehydes and inorganic acids.
Conditions contributing to Polymerization..... Not Applicable

PRECAUTIONS & SAFE HANDLING

Eye Contact..... Avoid
Skin Contact..... Avoid repeated or prolonged contact with skin. Careful bathing & clean clothes are indicated after exposure.
Inhalation..... Avoid repeated or prolonged breathing of wood dust in air.
Oxidizing Agents & Drying Oils..... Avoid Contact
Open Flame..... Avoid

GENERALLY APPLICABLE CONTROL MEASURE

Ventilation
Provide adequate general and local exhaust ventilation to maintain healthful working conditions.
Safety Equipment.....
Provide & wear goggles or safety glasses. Other protective equipment such as gloves and approved dust respirators may be needed depending upon dust conditions.

EMERGENCY & FIRST AID PROCEDURES

Eyes.....
Flush with water to remove dust particles. If irritation persists, get medical attention.
Skin.....
Get medical advice if a rash or persistent irritation or dermatitis occur and before returning to work where wood dust is present.
Inhalation
Remove to fresh air. If persistent irritation, severe coughing or breathing difficulties occur, get medical advice before returning to work where dust is present.
Ingestion..... Not Applicable

SPILL/LEAK CLEAN-UP PROCEDURES

Recovery or disposal.....
Clean-up. Sweep or vacuum spills for recovery or disposal; avoid creating dust conditions. Provide good ventilation where dust conditions may occur. Place recovered wood dust in a container for proper disposal.

Important:

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