

Rayner & Rinn-Scott, Inc. MATERIAL SAFETY DATA SHEET

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WOOD DUST

Revised per OSHA June 14, 2010

PRODUCT 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.....Variable
Dependent on wood species and moisture content.
Vapor Density.....Not Applicable
% Volatiles of Volume.....Not Applicable
Melting Point.....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 gram M³(LEL)
Extinguishing Media..... Water, CO₂ Sand
Special Fire Fighting Procedures.....Spray 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

WOOD DUST

ACGIH TLV FOR WOOD DUST ^(R)
Western Red Cedar 0.5 mg/m³ inhalable fraction
All Other Species 1 mg/m³ inhalable fraction.
OSHA PEL FOR WOOD DUST:
(PNOR)15 mg/m³ total
5 mg/m³ respirable
Skin & Eye Contact..... 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: Depending on species, 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.

Currently NTP lists wood dust as *Known to Be A Human Carcinogen*.
Currently IARC has found wood dust to be *Group 1, Carcinogenic to Humans*.

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REACTIVE DATA

Conditions contributing to:

Instability..... Stable under normal conditions

Incompatibility..... Avoid contact with oxidizing agents, drying oils & 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

GENERAL APPLICABLE CONTROL MEASURES

Ventilation Provide adequate general & local exhaust ventilation to maintain healthful working conditions.

Safety Equipment..... Wear goggles or safety glasses. Other protective equipment such as gloves & 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 advise if a rash or persistent irritation or dermatitis occur, and before returning to work where wood dust is present.

Inhalation..... Remove to fresh air & get medical advice if persistent irritation, severe coughing, breathing difficulties occur, before returning to work where wood dust is present.

Ingestion..... Not Applicable

SPILL/LEAK CLEAN-UP PROCEDURES

Recovery or disposal..... 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.

DISCLAIMER

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