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| | | SECTION 1. MATER | IAL IDENTIFICATION | | |
|--|---|---|--|---|---|
| Material Name: Other Designation: Manufacturer: | WOOD DUST Sawdust, Wood shavings, S Available as a commodity handling of wood or wood | from many sources. I | Way also result from | the cutting, drilling, sh | aping or general |
| | · | SECTION 11. INGRE | DIENTS AND HAZANDS | | |
| COM | PONENT . | <u>%</u> | • | HAZAPO DATA . | *. |
| Finely Div | ided Wood Particles | ca 10 | 00 | TWA 5 mg/m ³ * TWA 1 mg/m ³ * STEL 10 mg/m ³ * | |
| *ACGIH (1986-1987) | | ior soft wood; TNA 1) mg/m³ for soft wood | mg/m ³ for certain ha | rdwoods(as beech & oak) | |
| | | SECTION III. I | PHYSICAL DATA | ¥ 4 - 1 - 1 | |
| Solubility in water Heat of Combustion, Appearance & Odor: | BTU/Ib (typical) Light yellow to buff-colo aging. | section IV. FIRE A | | | nil ca 8,000-10,000 ood source and |
| etc. (Typica Extinguishing Media | on type of wood/wood prod I white pine autoignition : Determined by surroundi likelihood of ignitio fire is out. plosion Hazards: Wood dus | uct, particle size, would be at about 390 ng fire. Use a water n or dispersion of dut is a strong to seve. Partially burned d | evel of moisture in 10 - 500°F.) spray to wet down so set into the air. Refere explosion hazard lust is especially haz | mail amounts of wood dust move burned or wet dust to | nd rate of heating to reduce the o open area after s an ignition |
| | | SECTION V. READ | TIVITY DATA | | |
| | Stability: | Unstable | Stat | ole <u>X</u> | |
| Wood dust is readily spontant | r combustible. Keep in a combustion | cool dry place away f . Partially burned o | rom ignition sources. | . Hot, humid storage* car can be hazardous to store | result in . Avoid contact |

with oxidizing agents and with drying oils.

Thermo-exidative degradation (burning) of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.

2120F has been suggested as the upper temperature limit for continuous exposure for wood without risk of ignition. (Mood dust may require a still lower temperature.) White pine flour as a "cloud" in air requires 0.040 Joules/minute of energy for ignition and can produce an explosion pressure of 113 psig max. Who particles can be contaminated with thermoactinonyces organisms.

WCCD DUST

SECTION VI. HEALTH HAZARD INFORMATION

Effects of Overexposure: Avoid prolonged or repeated breathing of wood dust in air. Repeated exposures (even below 5 mg/m3) to certain wood dusts, such as western red cedar, can produce allergenic responses in a few sensitive individuals.* Avoid repeated or prolonged contact with the skin, which can also cause allergenic responses. If allergy, such as dermatitis, asthma, or bronchitis develops, it may be necessary to remove the sensitized worker from further exposure to wood dust (and also, perhaps to wood-based products like turpentine and rosin).

* Many kinds of woods are suspected to be toxic. Patty (page 1218) lists as toxic woods: Boxwood, cashew, mahogany, red cedar, yew, rosewood, satinwood, and teak. These are known to cause skin, eye, and URT irritation along with allergenic responses to

asthma.

First Ald: labalation:

Remove to fresh air. If persistent irritation, severe coughing, breathing difficulties, or rash occur, get

medical advice.

Flush with water to remove dust particles from the eye. If irritation persists, get medical attention. Eye Contact:

Skim Contact: If a rash, or persistent irritation or dermatitis occur, get medical advice.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Sweep up or vacuum up*** spills for recovery or disposal avoiding dusting conditions. Provide good ventilation. Place recovered wood dust in a container for proper handling.

*** See note listed in Section VIII. Disposal: In accordance with Federal, State and local regulations. Normally deposited in a landfill or incinerated. Disposal is the responsibility of the end user.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Ventilation: Where this material is handled or used, provide adequate explosion-proof ventilation to meet TLV requirements.***

***Due to the explosive potential of wood dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Proper electrical equipment for use in flammable dust conditions is reconnended.

Respiratory Protection: When dusting is excessive, an approved dust respirator may be needed and precautions should be taken to avoid generation of explosive levels of wood dust in the air.

Eve Protection: Use safety glasses or chemical goggles (as conditions warrant) to protect the eyes from wood dust. Other Protective Equipment: The use of clean body-covering work clothing is recommended to reduce exposure of skin to wood dust.

Follow good housekeeping practices; clean up areas where wood dust settles to avoid excessive accumulation of this combustible material.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Follow good hygienic practice. Wash frequently; wear clean work clothing. The chronic effects of skin contact with wood dust are not fully known and may vary from one wood to another. One study infers that exposure to wood dust has been statistically associated with masal cancer in British furniture workers. (CCDATA Bullstin, Nov. 1978).

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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 Specific Gravity

Vapor Density % Volatiles by Vol Melting Point Vapor Pressure Solubility in H₂ 0 (% by wt.) Evaporation Rate (Butyl Acetate=1) pH

Appearance and Odor

Not Applicable

Variable (Dependent on wood species

April 14, 1988
FACILITIES PLANNING

soot ois and

Law YORK

and moisture content)

Not Applicable
Not Applicable
Not Applicable
Not Applicable
Insoluable

Not Applicable Not Applicable

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

generated.

FIRE AND EXPLOSION DATA

Flash Point
Autoignition Temperature
Explosive Limits in Air
Extinguishing Media
Special Fire Fighting Procedures

Not Applicable Variable(Typically 400-500°F) 40 grams/M³ (LEL)

Water, CO₂, Sand

Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Remove burned or wet dust to an open area after the fire is extinguished.

Unusual Fire and Explosion Hazard

Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source.

HEALTH EFFECTS INFORMATION

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 - No Current PEL

Skin and Eye Contact

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 and obstruction. Coughing, wheezing, and sneezing; sinusitis and prolonged colds have also been reported.

Chronic Effects

Wood dust, depending upon 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.

REACTIVITY DATA

Conditions Contributing to Instability

Stable under normal conditions.

Incompatibility

Avoid contact with oxidizing agents and drying oils. Avoid open flame. Product may ignite at temperatures in excess of 400° F.

Hazardous Decomposition Products

Thermal-oxidative degradation of wood produces irritating and toxic toxic fumes and gases, including CO, aldehydes and inorganic acids.

Conditions Contributing to Polymerization

Not Applicable

PRECAUTIONS AND SAFE HANDLING

Avoid Eye Contact.

Avoid repeated or prolonged contact with skin. Careful bathing and clean clothes are indicated after exposure.

Avoid prolonged or repeated breathing of wood dust in air.

Avoid contact with oxidizing agents and drying oils.

Avoid open flame.

GENERALLY APPLICABLE CONTROL MEASURES

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

Wear goggles or safety glasses. Other protective equipment such as gloves and approved dust respirators may be needed depending upon dust conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes Flush with water to remove dust particles. If

irritation persists, get medical attention.

Skin If a rash or persistent irritation or dermatitis

occur, get medical advice 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 wood dust is

present.

Ingestion Not Applicable

SPILL/LEAK CLEAN-UP PROCEDURES

Sweep or vacuum spills for recovery or disposal; avoiding 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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