**\* \* \* Section 1 - Chemical Product and Company Identification \* \* \***

**Synonyms:** D-Blaze Fire Retardant, Pressure Treated Wood (Phospho-Ammonium-Boron Complex)

**Manufacturer/Importer/Supplier/Distributor Information**

Company Name: Manke Lumber Company Inc.

Address: 1717 Marine view Drive

 Tacoma, WA 98422

Telephone SDS Request 253-572-6252

Email n/a

**\* \* \* Section 2 - Hazards Identification \* \* \***

**Emergency Overview**

Product is a light to dark brown solid. Acute or prolonged exposure may cause irritation of the eyes, skin,

gastrointestinal tract and respiratory tract. Product may form explosive dust/air mixtures if high concentration of

product dust is suspended in air.

**Potential Health Effects: Eyes**

This product may cause mechanical irritation to the eyes.

**Potential Health Effects: Skin**

Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**Potential Health Effects: Ingestion**

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

**Potential Health Effects: Inhalation**

Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Excessive inhalation may lead

to chest pains and chemical pneumonitis.

**HMIS Ratings: Health:** 1 **Fire:** 0 **Physical Hazard:** 0 **Pers. Prot.:** Gloves, Safety Glasses

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**\* \* \* Section 3 - Composition / Information on Ingredients \* \* \***

|  |  |  |
| --- | --- | --- |
| **CAS #** | **Component** | **Percent** |
| Not Available | Wood/ Wood Dusts | 95-100 |
| Proprietary | Phospho-Ammonium Boron Complex | <5 |

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Wood dusts-

soft woods, Wood dusts-hard wood.

**Component Information/Information on Non-Hazardous Components**

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard).

**\* \* \* Section 4 - First Aid Measures \* \* \***

**First Aid: Eyes**

If wood fibers get in eyes, immediately flush eyes with plenty of water for at least 15 minutes. Get medical

attention or advice.

**First Aid: Skin**

For skin contact flush with large amounts of water. Wash contaminated clothing before reuse. If irritation persists,

get medical attention.

**First Aid: Ingestion**

Do not induce vomiting. Call a physician immediately

 **First Aid: Inhalation**

If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, have trained personnel give oxygen to the victim. If symptoms persist, get medical attention.

**\* \* \* Section 5 - Fire Fighting Measures \* \* \***

**General Fire Hazards**

See Section 9 for Flammability Properties.

Product may burn when exposed to extremely high temperature. Product contains a fire retardant. High

concentration of airborne dust may form explosive mixture with air.

**Hazardous Combustion Products**

Phosphorous compounds, Boron compounds.

**Extinguishing Media**

Use methods for the surrounding fire.

**Fire Fighting Equipment/Instructions**

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

Firefighters should avoid inhaling any combustion products.

**NFPA Ratings: Health:** 1 **Fire:** 0 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**\* \* \* Section 6 - Accidental Release Measures \* \* \***

**Containment Procedures**

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the

product.

**Clean-Up Procedures**

Sweep up or gather material and place in appropriate container for disposal. Wash spill area thoroughly. Wear

appropriate protective equipment during cleanup. Avoid the generation of dusts during clean-up.

**Evacuation Procedures**

Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from

entering.

**Special Procedures**

No additional information available.

**\* \* \* Section 7 - Handling and Storage \* \* \***

**Handling Procedures**

Wear appropriate protective clothing and equipment when handling this material. Wash hands after handling and

before eating. Do not breathe dust from this material. Do not generate airborne dusts in the presence of an ignition source when sawing, cutting or grinding wood.

**Storage Procedures**

Store away from incompatible materials and open flame.

**\* \* \* Section 8 - Exposure Controls / Personal Protection \* \* \***

**A: Component Exposure Limits**

**Wood/ Wood Dusts (Not Available)**

New Brunswick: 5 mg/m3 TWA (related to Wood dusts-soft woods)

10 mg/m3 STEL (related to Wood dusts-soft woods)

Ontario: 5 mg/m3 TWAEV (related to Wood dusts-soft woods)

10 mg/m3 STEV (related to Wood dusts-soft woods)

Saskatchewan: 5 mg/m3 TWA (certain species) (related to Wood dusts-soft woods)

10 mg/m3 STEL (related to Wood dusts-soft woods)

**Engineering Controls**

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

**PERSONAL PROTECTIVE EQUIPMENT**

**Personal Protective Equipment: Eyes/Face**

Wear safety glasses with side shields.

**Personal Protective Equipment: Skin**

Use impervious gloves.

**Personal Protective Equipment: Respiratory**

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection

must be provided.

**Personal Protective Equipment: General**

Eye wash fountain is recommended.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | **Section 9 – Physical & Chemical Properties** |  |
| **Appearance:** | Light to dark brown powder. | **Odor:** | None |
| **Physical State:** | Solid | **pH:** | Not Available |
| **Vapor Pressure:** | Not Available | **Vapor Density:** | Not Available |
| **Boiling Point:** | Not Available | **Melting Point:** | Not Available |
| **Solubility (H2O):** | Not Available | **Specific Gravity:** | Not Available |
| **Flash Point:** | Not Available | **Flash Point Method:** | Not Available |
| **Auto Ignition:** | Not Available | **LFL:** | Not Available |
| **UFL:** | Not Available |  |  |
|  |  |  |  |
|  |  |  |  |

**\* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \***

**Chemical Stability**

Stable under normal conditions.

**Chemical Stability: Conditions to Avoid**

Open flame will cause product to char.

**Incompatibility**

None identified.

**Hazardous Decomposition**

Oxides of Carbon, Phosphorous compounds, Boron compounds.

**Possibility of Hazardous Reactions**

Will not occur.

**\* \* \* Section 11 - Toxicological Information \* \* \***

**Acute Dose Effects**

**A. General Product Information**

Acute or prolonged contact may cause irritation of the eyes, skin, gastrointestinal tract and respiratory tract.

Toxicology data provided by manufacturer: Boron Compound LD50: 45g/kg.

**B. Component Analysis - LD50/LC50**

No LD50/LC50's are available for this product's components.

**Carcinogenicity**

**A. General Product Information**

No additional information available.

**B. Component Carcinogenicity**

**Wood/ Wood Dusts (Not Available)**

ACGIH: A1 - Confirmed Human Carcinogen (related to Wood dusts-hard wood)

**\* \* \* Section 12 - Ecological Information \* \* \***

**Ecotoxicity**

1. **General Product Information**

According to manufacturer: Animal studies of boron compound indicate low toxicity. No additional information available.

1. **Component Analysis - Ecotoxicity - Aquatic Toxicity**

No ecotoxicity data are available for this product's components.

**Environmental Fate**

No additional information available.

**\* \* \* Section 13 - Disposal Considerations \* \* \***

**US EPA Waste Number & Descriptions**

1. **General Product Information**

No components are identified as hazardous wastes.

1. **Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**\* \* \* Section 14 - Transportation Information \* \* \***

**US DOT Information**

**Shipping Name:** Not regulated.

**Canada Transportation of Dangerous Goods Information Shipping Name:** Not regulated.

**\* \* \* Section 15 - Regulatory Information \* \* \***

**US Federal Regulations**

**A: General Product Information**

All components are on the U.S. EPA TSCA Inventory List.

**B: Component Analysis**

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**SARA 311/312: Acute Health** Yes **Chronic Health** No **Fire** No **Pressure** No **Reactive** No **State Regulations**

1. **General Product Information**

Other state regulations may apply. Check individual state requirements.

1. **Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Component** | **CAS** | **CA** | **MA** | **MN** | **NJ** | **PA** | **RI** |
| Wood/ Wood Dusts (1related to Wood dusts-soft woods) | Not Available | No | No | No | No | Yes1 | No |

**Canadian WHMIS Information**

1. **General Product Information**

No additional information available.

1. **Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**Additional Regulatory Information**

**A: General Product Information**

No additional information available.

**\* \* \* Section 16 - Other Information \* \* \***

**Other Information**

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m3 = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.