



MATERIAL SAFETY DATA SHEET

Material Name: D-Blaze Fire Retardant, Pressure Treated Wood

MSDS ID: VIA-064U

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

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

Manufacturer Information

The Marwin Company
P.O. Box 9126
Columbia, SC 29290

Phone: 803-776-2396

*** 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.



MATERIAL SAFETY DATA SHEET

Material Name: D-Blaze Fire Retardant, Pressure Treated Wood

MSDS ID: VIA-064U

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.



MATERIAL SAFETY DATA SHEET

Material Name: D-Blaze Fire Retardant, Pressure Treated Wood

MSDS ID: VIA-064U

*** 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.



MATERIAL SAFETY
DATA SHEET

Material Name: D-Blaze Fire Retardant, Pressure Treated Wood

MSDS ID: VIA-064U

*** 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

A: General Product Information

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

B: 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

A: General Product Information

No components are identified as hazardous wastes.

B: 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.



**MATERIAL SAFETY
DATA SHEET**

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MSDS ID: VIA-064U

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

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: 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 (*related to Wood dusts-soft woods)	Not Available	No	No	No	No	Yes ¹	No

Canadian WHMIS Information

A: General Product Information

No additional information available.

B: 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.

End of Sheet VIA-064U