

**\*\*\* Section 1 - IDENTIFICATION\*\*\*****Product Identifier:**

D-Blaze Fire Retardant Solution

**Recommended Use**

Wood Treatment

**Restrictions on Use**

None known.

**Manufacturer Information**

Viance, LLC  
8001-IBM Drive  
Charlotte, NC 28262

Phone: 704-522-0825  
Fax: 704-527-8232  
Emergency #: CHEMTREC: (800) 424-9300,  
1-703-527-3887 for U.S. and Canadian shipments ONLY

**General Comments**

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

**\*\*\* Section 2 - HAZARD(S) IDENTIFICATION\*\*\*****Classification in accordance with 29 CFR 1910.1200.**

Eye Damage/Irritation, Category 1  
Toxic to Reproduction - Category 1B  
Skin Corrosion/Irritation, Category 2  
Specific Target Organ Toxicity – Single Exposure, Category 3  
Acute Toxicity – Inhalation, Category 3

**GHS LABEL ELEMENTS****Symbol(s)****Signal Word**

DANGER

**Hazard Statement(s)**

Causes serious eye damage.  
May damage fertility or the unborn child.  
Causes skin irritation.  
May cause respiratory irritation.  
Toxic if inhaled.

**Precautionary Statement(s)****Prevention**

Wear eye protection/ face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Wash exposed skin thoroughly after handling.  
Avoid breathing dust/ fumes/ gas/ mist/ vapors/ spray.  
Use only outdoors or in a well-ventilated area.

**Response**

If exposed or concerned: Get medical advice/attention.

IF ON SKIN: Take off immediately contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists: Get medical advice attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician for advice/attention.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician for advice/attention.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Storage**

Store locked up.

**Disposal**

Dispose in accordance with all applicable regulations.

**Hazard(s) Not Otherwise Classified**

Inhalation of mist may cause respiratory tract irritation.

**\*\*\* Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS \*\*\***

CAS	Component	Percent
Not Available	Ammonium Phosphates <sup>(1)</sup>	<50
7732-18-5	Water	40-45
10043-35-3	Boric acid	5-10

<sup>(1)</sup> Ammonium Phosphates is a complex of Ammonium Hydroxide (CAS# 1336-21-6) and Phosphoric Acid (CAS# 7664-38-2. CAS# for Ammonium Phosphates complex has not been established.

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

This product is considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

**\*\*\* Section 4 - FIRST-AID MEASURES\*\*\*****Description of Necessary Measures****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. Call a POISON CENTER or doctor/physician for advice/attention.

**Skin Contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician for advice/attention.

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

**Most Important Symptoms/Effects****Acute**

Skin irritation, eye irritation

**Delayed**

Reproductive effects.

**Indication of Immediate Medical Attention and Special Treatment Needed, If Needed**

IF exposed or concerned: Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.

**\*\*\* Section 5 - FIRE-FIGHTING MEASURES\*\*\*****Suitable Extinguishing Media**

Use methods for the surrounding fire.  
Large fires: Use water spray, fog or regular foam.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Specific Hazards Arising from the Chemical**

Used as flame retardant. Not flammable

**Hazardous Decomposition Products**

**Combustion:** ammonium, phosphorus, boron compounds

**Special Protective Equipment and Precautions for Firefighters**

This material will not burn. Product is a fire retardant. Wear full protective fire-fighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

**Fire Fighting Measures**

Move container from fire area if it can be done without risk.

**NFPA Ratings: Health: 1 Fire: 0 Instability: 0 Other: \***

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

\* W, OX, SA



**\*\*\* Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\***

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8. Do not touch or walk through spilled material.

**Methods and Materials for Containment**

Wear appropriate protective equipment and clothing during clean-up. Prevent entry into waterways, sewers, basements, or confined areas. Solid material spillage may be wet down with a fine water spray to suppress dust during cleanup. Shovel material into appropriate container for disposal. Wash spill area thoroughly with water

**Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Prevent entry into waterways, sewers, basements, or confined areas. Collect with appropriate absorbent and place into suitable container. Shovel material into appropriate container for disposal. Wash spill area thoroughly with water.

**\*\*\* Section 7 - HANDLING AND STORAGE\*\*\***

**Precautions for Safe Handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor or mist. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

**Conditions for Safe Storage, including any Incompatibilities**

Store locked up. Keep the container tightly closed and in a cool, well-ventilated place. Keep away from incompatible materials. Do not freeze. Store away from direct sunlight and any sources of heat.

**Incompatibilities:** Water-reactive materials.

**\*\*\* Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\*\*\***

Exposure limits for this product has not been established.

**Component Exposure Limits**

**Boric acid (10043-35-3)**

**ACGIH:** 2 mg/m<sup>3</sup> TWA (inhalable fraction)  
6 mg/m<sup>3</sup> STEL (inhalable fraction)

**British Columbia:** 6 mg/m<sup>3</sup> STEL (inhalable)  
2 mg/m<sup>3</sup> TWA (inhalable)

**Manitoba:** A4 Not Classifiable as a Human Carcinogen  
6 mg/m<sup>3</sup> STEL (inhalable fraction)  
2 mg/m<sup>3</sup> TWA (inhalable fraction)

**Newfoundland and** 6 mg/m<sup>3</sup> STEL (inhalable fraction)

<b>Labrador:</b>	2 mg/m <sup>3</sup> TWA (inhalable fraction)
<b>Northwest Territories:</b>	6 mg/m <sup>3</sup> STEL (inhalable fraction) 2 mg/m <sup>3</sup> TWA (inhalable fraction)
<b>Nova Scotia:</b>	6 mg/m <sup>3</sup> STEL (inhalable fraction) 2 mg/m <sup>3</sup> TWA (inhalable fraction)
<b>Nunavut:</b>	6 mg/m <sup>3</sup> STEL (inhalable fraction) 2 mg/m <sup>3</sup> TWA (inhalable fraction)
<b>Ontario:</b>	6 mg/m <sup>3</sup> STEL (inhalable) 2 mg/m <sup>3</sup> TWA (inhalable)
<b>Prince Edward Island:</b>	6 mg/m <sup>3</sup> STEL (inhalable fraction) 2 mg/m <sup>3</sup> TWA (inhalable fraction)
<b>Quebec:</b>	6 mg/m <sup>3</sup> STEV (inhalable fraction) 2 mg/m <sup>3</sup> TWAEV (inhalable fraction)
<b>Saskatchewan:</b>	6 mg/m <sup>3</sup> STEL (inhalable fraction) 2 mg/m <sup>3</sup> TWA (inhalable fraction)

### Appropriate Engineering Controls

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment. Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eyes/Face Protection

Wear splash resistant safety goggles with a face-shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin Protection

Wear chemical resistant clothing to prevent skin contact.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

#### Respiratory Protection

If ventilation is not sufficient to effectively prevent buildup of large quantities of dust/vapor or prolonged exposure is possible, appropriate approved NIOSH respiratory protection must be provided. Respirators should be selected by and used under the direction of a trained health and safety professional following the requirements found in OSHA's respirator standard (29 CFR 1901.134) and ANSI's standard for respiratory protection (Z88.2-1992), applicable U.S. regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces. A written respiratory protection program, including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

#### PPE Pictograms:



**\*\*\* Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\***

<p><b>Appearance:</b> Colorless</p> <p><b>Physical State:</b> Liquid</p> <p><b>Vapor Pressure:</b> 28 mmHg @ 20 °C</p> <p><b>Vapor Density:</b> Not available</p> <p><b>Boiling Point / Boiling Range:</b> Approx. 100 °C (212 °F) / Not available</p> <p><b>Melting Point / Freezing Point:</b> Not available / Approx. 0 °C (32 °F)</p> <p><b>Solubility (H<sub>2</sub>O):</b> Soluble</p> <p><b>Flash Point:</b> Not available</p> <p><b>Upper Flammable Limit (UFL):</b> Not applicable</p> <p><b>Viscosity:</b> Not available</p> <p><b>Flammability (solid, gas):</b> Not applicable</p>	<p><b>Odor:</b> Odorless</p> <p><b>Odor Threshold:</b> Not Available</p> <p><b>pH:</b> Approx. 7.0</p> <p><b>Specific Gravity:</b> 1.290 – 1.294</p> <p><b>Evaporation Rate:</b> Not Available</p> <p><b>Relative Density:</b> Not Available</p> <p><b>Auto-ignition Temperature:</b> Not available</p> <p><b>Decomposition Temperature:</b> Not available</p> <p><b>Lower Flammable Limit (LFL):</b> Not applicable</p> <p><b>Partition Coefficient (n-octanol / water):</b> Not available</p>
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**\*\*\* Section 10 - STABILITY AND REACTIVITY\*\*\***

**Chemical Stability**

Stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid contact with incompatible materials.

**Incompatible Materials**

Water-reactive materials.

**Hazardous Decomposition**

**Combustion:** ammonium, phosphorus, boron compounds

**\*\*\* Section 11 - TOXICOLOGICAL INFORMATION\*\*\***

**Acute Toxicity**

Acute or prolonged exposure may result in irritation of the eyes, skin, gastrointestinal tract and respiratory tract.

**Toxicity Data:** Toxicology data for components greater than 1 percent in concentration are provided below.

Toxicity data supplied by component manufacturer:

**Inorganic Phosphate Compounds:**

There are currently no toxicology data available for these components of the product.

**Inorganic Compound Mixture:**

Oral-Infant TDLo: 800 mg/kg/ 4-weeks intermittent.

Oral-Infant LDLo: 934 mg/kg.

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Oral-Child TDLo: 500 mg/kg: Gastrointestinal tract effects.  
Oral-Man LDLo: 429 mg/kg: Cardiovascular effect, Systemic effects.  
Oral-Woman LDLo: 200 mg/kg.  
Skin-Infant LDLo: 1200 mg/kg.  
Skin- Human; 15mg/ 3-days intermittent; Mild irritation effect.  
Skin-Child LDLo: 4g/kg/4 days.  
Skin-Child LDLo: 15000 mg/kg.  
Skin-Man LDLo: 2430 mg/kg.  
Oral-Mouse LD50: 3450 mg/kg.

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

**Water (7732-18-5)**

Oral LD50 Rat >90 mL/kg

**Boric acid (10043-35-3)**

Oral LD50 Rat 2,660 mg/kg; Inhalation LC50 Rat >0.16 mg/L 4 h; Dermal LD50 Rabbit >2,000 mg/kg

**Information on Likely Routes of Exposure****Inhalation**

Toxic if inhaled.

**Ingestion**

No data available.

**Skin Contact**

May cause skin irritation.

**Eye Contact**

May cause eye irritation.

**Immediate Effects**

Skin irritation, eye irritation.

**Delayed Effects**

Reproductive effects - May damage fertility or the unborn child.

**Medical Conditions Aggravated by Exposure**

No data available.

**Irritation/Corrosivity Data**

Skin irritation, eye irritation

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Germ Cell Mutagenicity**

No data available.

**Carcinogenicity****Component Carcinogenicity****Boric acid (10043-35-3)**

ACGIH: A4 - Not Classifiable as a Human Carcinogen

**Reproductive Toxicity**

Available data characterizes components of this product as reproductive hazards which may damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

May cause respiratory irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**\*\*\* Section 12 - ECOLOGICAL INFORMATION\*\*\*****Ecotoxicity**

No information available for the product.

**Component Analysis - Aquatic Toxicity****Boric acid (10043-35-3)****Fish:** 72 Hr LC50 Carassius auratus (Goldfish): 1020 mg/L [flow-through]**Invertebrate:** 48 Hr EC50 Daphnia magna (Water flea): 115 - 153 mg/L**Avian:** 5 days LC50 Anas platyrhynchos (Mallard): >5,620 ppm [Diet]; 5 days LC50 Colinus virginianus (Northern bobwhite): >5,620 ppm [Diet]**Persistence and Degradability**

No information available for the product.

**Bioaccumulation Potential**

No information available for the product.

**Mobility in Soil**

No information available for the product.

**\*\*\* Section 13 - DISPOSAL CONSIDERATIONS\*\*\*****US EPA Waste Number & Descriptions****General Product Information**

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**Disposal of Contaminated Packaging****Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations

**\*\*\* Section 14 - TRANSPORT INFORMATION\*\*\*****US DOT Information**

**Shipping Name:** This product is not regulated as a hazardous material for transportation.

**Canada Transportation of Dangerous Goods Information**

**Shipping Name:** This product is not regulated as a hazardous material for transportation.

**IMDG Information**

**Shipping Name:** This product is not regulated as a hazardous material for transportation

**\*\*\* Section 15 - REGULATORY INFORMATION\*\*\*****U.S. Federal Regulations**

This material does not contain chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4). This product may be subject to reporting under SARA Section 311/312 (40 CFR 370.21) if storage threshold is exceeded.

**SARA 311/312:** See Section 2 for Physical and Health Hazards to be listed on Tier II form EPA 8700-30, or equivalent.

**Federal Insecticide, Fungicide, and Rodenticide Act**

The labeling and use requirements of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) are applicable to this product. This material contains the following chemicals present on either the Listing of Pesticide Chemicals (40 CFR 180) or Pesticides Classified for Restricted Use as listed by FIFRA:

**Boric Acid (10043-35-3)**

FIFRA Section number 180.920

**Component Marine Pollutants**

This material does not contain chemicals required by US DOT to be identified as marine pollutants.

**U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

**WHMIS Classification(s)**

D2A – Very Toxic Material at  $\geq 0.1\%$  (Reproductive Toxicity)

D2B – Toxic Material at  $\geq 1.0\%$  (Skin/Eye Irritation – Reversible Damage)

## Component Analysis – Inventory List

Component	CAS	Active TSCA List	AU	CA	CN	EU	JP	KR	MX	PH	NZ
Water	7732-18-5	Yes	AiIC	DSL	IECSC	EINECS	ISHL	KECI	INSQ	PICCS	NZIoC
Boric acid	10043-35-3	Yes	AiIC	DSL	IECSC	EINECS	ISHL	KECI	INSQ	PICCS	NZIoC

### \*\*\* Section 16 - OTHER INFORMATION \*\*\*

#### Summary of Changes

01/13/2015 v.1.0; 03/08/2018 – 3-year review. Revise hazard classification; 01/20/2021 v.2.5 – 3-year review/update; 02/24/2022 v.3.0 – Revised component description in Section 2; 04/17/2024 v.3.5 – 3-year review/update – Revised Section 2 classifications based on updated information - Removed Canadian WHMIS IDL section as list has been repealed (Section 15).

#### Key / Legend

**ACGIH** - American Conference of Governmental Industrial Hygienists; **AU** - Australia; **BOD** - Biochemical Oxygen Demand; **C** - Celsius; **CA** - Canada; **CAS** - Chemical Abstracts Service; **CERCLA** - Comprehensive Environmental Response, Compensation, and Liability Act; **CFR** - Code of Federal Regulations; **CN** - China; **CNS** – Central Nervous System; **CPR** - Controlled Products Regulations; **cSt** – Centistokes; **DOT** - Department of Transportation; **DSL** - Domestic Substances List; **EbC50** – Acute Endpoint - the concentration of a test substance which results in a 50 percent reduction in biomass growth; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **ELINCS** - European List of Notified Chemical Substances; **EPA** - Environmental Protection Agency; **ERG** - Emergency Response Guide; **ErC50** – EC50 (lethal concentration) in terms of reduction of growth weight; **EU** -European Union; **F** - Fahrenheit; **HEPA** - High Efficiency Particulate Air; **HMIS** - Hazardous Material Information System; **HPV** – High Production Volume Chemical (EU); **IARC** - International Agency for Research on Cancer; **IATA** - International Air Transport Association; **ICL** – In Commerce List (Canada); **IDLH** - Immediately Dangerous to Life and Health; **IMDG** – International Maritime Dangerous Goods; **JP** - Japan; **KR** - Korea; **LL** – Lethal Loading; **LLNA** – Local Lymph Node Assay; **LEL** - Lower Explosive Limit; **LMPE-CT** – Short term exposure limit; **LMPE-PPT** - Límite Máximo Permisible de Exposición Promedio Ponderado en el Tiempo (Mexico TWA equivalent); **LOEC** – Lowest Observed Effect Concentration; **MITI** - Japan Ministry of International Trade and Industry; **mg/Kg** - milligrams per Kilogram; **mg/L** - milligrams per Liter; **mg/m<sup>3</sup>** - milligrams per Cubic Meter; **MSHA** - Mine Safety and Health Administration; **MX** – Mexico; **NA** - Not Applicable or Not Available; **NFPA** - National Fire Protection Association; **NIOSH** - National Institute for Occupational Safety and Health; **NJTSR** - New Jersey Trade Secret Registry; **NOEC** – No Observed Effect Concentration; **NTP** - National Toxicology Program; **NZ** - New Zealand; **OSHA** - Occupational Safety and Health Administration; **PH** - Philippines; **RCRA** - Resource Conversation & Recovery Act; **SARA** - Superfund Amendments and Reauthorization Act; **STEL** - Short Term Exposure Limit; **STEV** – Short-term Exposure Values; **TDG** - Transport Dangerous Goods; **TSCA** - Toxic Substances Control Act; **TWA** - Time Weighted Average; **TWAEV** – Time Weighted Average Exposure Values; **UEL** - Upper Explosive Limit; **US** - United States; **VLE-CT** – Short term exposure limit value; **VLE-PPT** – Time weighted average limit value; **WHMIS** - Workplace Hazardous Materials Information System.

#### 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



# Safety Data Sheet

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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.

End of Sheet VIA 251