

Att: Joe

FEB 05 2008

MATERIAL SAFETY DATA SHEET  
DRICON® FIRE RETARDANT TREATING SOLUTION  
January 14, 2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Dricon® Fire Retardant Treating Solution  
General Use: Fire retardant

MANUFACTURER:  
Arch Wood Protection, Inc.  
3941 Bonsal Road  
Conley, Georgia 30288  
MSDS Information 1-800-511-6737

EMERGENCY TELEPHONE NUMBERS:  
\*CHEMTREC Assistance: 1-800-424-9300  
\*CANUTEC: 1-613-996-6666  
ACEAN 24 hour Emg. Resp. 1-800-654-6911  
\*Use only during transportation emergencies

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	PERCENT	CAS #	EXPOSURE LIMITS (mg/m <sup>3</sup> )		
			OSHA - PEL	ACGIH - TLV	ACGIH STEL
Boric Acid	2-6	10043-35-3	*None	None	None
Guanylurea Phosphate	5-14	17675-60-4	*None	None	None
Phosphoric Acid	0.0-0.2	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>
Water	80-93				

3. HAZARDS IDENTIFICATION

Inhalation: Occasional mild irritation effects to nose and throat may occur from inhalation of dust.  
Eye Contact: Moderately irritating.  
Skin Contact: May produce mild irritation.  
Ingestion: May produce mild gastrointestinal irritation. Swallowing large amounts may result in headache, drowsiness, or restlessness.

4. FIRST AID MEASURES

Inhalation: Minimal effect should be observed in normal usage, however, if breathing difficulty should arise, remove person from exposure and seek medical aid.  
Eye Contact: Exposed eyes should be flushed with large amounts of saline or water for at least 15 minutes, (greater than 1 liter per eye, minimum) using low pressure, taking care that the eyes remain open during this entire procedure. If wearing contact lenses, immediately flush eyes with water for a short period prior to removing contacts, then resume flushing procedures as described above. **Immediately seek medical aid.**  
Skin Contact: IMMEDIATELY wash affected skin areas thoroughly with soap and water. Remove and wash contaminated clothing thoroughly. If irritation develops, seek medical attention.  
Ingestion: IMMEDIATELY seek medical attention. Never give anything by mouth to an unconscious person. Call a physician or poison center at (800) 837-0496 (Outside the US call 1-404-616-9000).

5. FIRE FIGHTING MEASURES

Flash Point N/A Lower Explosive Limit N/A  
Auto-Ignition N/A Upper Explosive Limit N/A

Unusual Hazards: This product is not flammable, combustible, or explosive, therefore, is not a fire hazard. However, fire from a separate source may be intense enough to cause thermal decomposition, releasing toxic gases including oxides of carbon and nitrogen. No unusual hazards if involved in a fire.

**5. FIRE FIGHTING MEASURES CONT'D**

**Extinguishing Agents:** Use extinguishing media appropriate for surrounding fire.

**Personal Protective Equipment:** Wear self-contained breathing apparatus (pressure-demand NIOSH/NFPA approved or equivalent) and full protective gear.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** During spill clean-ups of this material you may need to wear a NIOSH-approved dust/mist/particulate respirator. Wear protective clothing including Splash goggles, polyvinyl chloride (PVC), neoprene or natural rubber gloves. See SECTION 4, First Aid Measures and SECTION 8, Exposure Controls/Personal Protection for further information.

**Procedures:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Use inert absorbent (such as kitty litter) to pick up spills. Vacuum, shovel, or sweep land spills and place in containers for disposal in accordance with applicable state and local regulations.

**NOTE:** Most spills that occur within containment in a treating plant can simply be flushed with water into a sump to be pumped back into the system.

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**7. HANDLING AND STORAGE**

**Storage Conditions:** Keep from freezing. Store in ambient temperature and atmospheric pressure.

**Handling Procedures:** No special handling precautions are required. Good housekeeping procedures should be followed to minimize releases.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory Protection:** None normally required. For conditions that exceed PEL, use a **NIOSH approved N95 particulate filter respirator.**

**Eye Protection:** Use splash goggles to prevent entry into the eyes.

**Hand Protection:** Gloves in the following materials give adequate protection: polyvinyl chloride (PVC), neoprene or natural rubber. Rinse and remove gloves after use. Wash hands with soap and water.

**Other Protection:** Use apron or other impervious clothing to avoid prolonged or repeated skin contact.

**Engineering Controls:** Provide sufficient local and/or general exhaust ventilation to control airborne concentrations of this product below permissible exposure levels.

**Other Protective Equipment:** Emergency eyewash and safety shower station for quick drenching or flushing.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Color	Clear to pale yellow	Vapor Pressure	N/A
State	Liquid	Freezing Point	Not Available
Odor Characteristic	Odorless	Solubility in Water	Soluble
PH	2.5 - 4.5	Percent Volatility	N/A
Viscosity	N/A	Evaporation Rate (BAc = 1)	N/A
Specific Gravity (Water = 1)	1.02 - 1.10	Vapor Density (Air = 1)	N/A

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**10. STABILITY AND REACTIVITY**

**Instability:** This material is considered stable under specified conditions of storage, shipment and/or use.

The Boric Acid component is also stable on its own, however, when heated it loses water, first forming Metaboric Acid (HB02), and on further heating is converted into Boric Oxide (B203).

**Hazardous Decomposition Products:** Oxides of carbon and nitrogen.

**Hazardous Polymerization:** NA

**Incompatibility:** The Boric Acid component reacts as a weak acid, which may cause corrosion of base metals. Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas, which could create an explosive hazard.

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## 11. TOXICOLOGICAL INFORMATION

**Acute Data:** Currently there is no data on Dricon® Fire Retardant Solution. Please refer to the Dricon® Fire Retardant MSDS for information.

**Carcinogenicity Data:** Is not considered a carcinogen.

**Mutagenicity Data:** Non-mutagenic in the Ames test.

**Reproductive/Teratology Data:** Laboratory animal studies in several species, administering high oral doses of borate, produced results in only one species that showed developmental toxicity at non-maternally

toxic doses. Based on this data, borate compounds may have the potential to cause developmental toxicity.

**Sensitization Data:** Is not a skin sensitizer.

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## 12. ECOLOGICAL INFORMATION

**Environmental Toxicity:** Currently there is no data on Dricon® Fire Retardant Solution. Please refer to the Dricon® Fire Retardant MSDS for information.

**Phytotoxicity:** Although boron is an essential micronutrient for healthy growth of plants and is naturally occurring in the environment, it can be harmful to boron-sensitive plants in higher quantities. Boric Acid decomposes in the environment to natural borate. Plants and trees can be exposed by root absorption to toxic levels of boron in the form of water-soluble borate leached into nearby soil or waters. Care should be taken to minimize the amount of Dricon® Fire Retardant product released to the environment.

**Environmental Fate Data:**

**Persistence/Degradation:** Boron is naturally occurring and ubiquitous in the environment. Boric Acid is decomposed in the environment to natural borate.

**Soil Mobility:** Boric Acid is soluble in water and is leachable through normal soil.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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## 13. DISPOSAL CONSIDERATIONS

**Procedure:** As of the date on this MSDS, this product is not classified as an US-EPA RCRA hazardous waste under 40 CFR 261. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Check local and state regulations, as they may be more stringent.

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## 14. TRANSPORT INFORMATION

**DOT Hazardous Materials Classification:** This product is not an U.S. Department of Transportation (DOT) Hazardous Material and thus does not have a DOT Proper Shipping Name.

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## 15. REGULATORY INFORMATION

**OSHA:** This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**CANADA:** This product is not subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act).

**SARA TITLE III Section 311/312 Categorizations (40 CFR 370):** If a plant has stored 10,000 pounds or more of Dricon® powder and solution during the previous year, it must be reported on the SARA Tier II form.

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## 15. REGULATORY INFORMATION CONT'D

**SARA TITLE III Section 313 Information (40 CFR 372):** As of June, 2000, phosphoric acid was removed from the

Section 313 required reporting list. As of the date on this MSDS, there are no ingredients requiring reporting.  
CERCLA Information (40 CFR 302.4): Not Applicable. Local and State Regulations may still require notification.  
Waste Classification (RCRA): As of the date on this MSDS, this product is not classified as an US-EPA RCRA hazardous waste under 40 CFR 261. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Check local and state regulations, as they may be more stringent.

FIFRA: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from U.S. Toxic Substances Control Act (TSCA) inventory listing requirements.

NFPA: Health = 1, Flammability = 0, Reactivity = 0

HMIS: Health = 1, Flammability = 0, Reactivity = 0

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## 16. OTHER INFORMATION

### ABBREVIATIONS

OSHA	Occupational Safety and Health Administration	TLV	Threshold Limit Value
NFPA	National Fire Protection Association	STEL	Short-Term Exposure Limit
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act	RCRA	Resource Conservation and Recovery Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	ACGIH	American Conference of Governmental Industrial Hygienists
SARA	Superfund Authorization and Reauthorization Act	NIOSH	National Institute of Occupational Safety and Health
PEL	Permissible Exposure Limit	TSCA	Toxic Substances Control Act
DOT	Department of Transportation	IARC	International Agency for Research on Cancer
NTP	National Toxicology Program	IBC	International Building Code
CFR	Code of Federal Regulations	mg/m <sup>3</sup>	Milligrams per cubic meter
CWA	Clean Water Act	CAA	Clean Air Act
CAS	Chemical Abstracts Service		

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Arch Wood Protection, Inc. makes no guarantee or warranty, expressed or implied, as to the accuracy, reliability, or completeness of the information.

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