



FIRE RETARDANT  
**WOOD SEAL™**  
**SAFETY DATA SHEET**

**SECTION 1** PRODUCT & COMPANY INFORMATION

1.1 Product Identifier

Product Name	WOOD SEAL™
Brand	Flame Seal Products, Inc.
CAS #	NA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Fire retardant liquid for treating porous wood and other cellulosic materials.
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1.3 Details of the Supplier of the Safety Data Sheet

Company	Flame Seal Products, Inc. 15200 West Drive Houston, TX 77053 USA
Telephone	713-668-4291
Fax	713-668-1724

1.4 Emergency telephone number

Emergency #	800-424-9300
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**SECTION 2** HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
Eye irritation (2B), Skin irritation (3)

2.2 GHS Label Elements, including precautionary statements

Hazard Statements	WARNING
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H316 : 3	Causes mild skin irritation.
H320 : 2B	Causes eye irritation.

Precautionary Statements

P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly if exposed.
P280	Wear eye/face protection.
P281	Use personal protection equipment as required.
P305 + P351 + P338	In case of eye contact: rinse thoroughly with eyelid(s) held open. Remove contact lenses, if worn.
P332 + 313	If skin irritation occurs: get medical advice/attention.
P337 + P313	If eye irritation persists: get medical advice/attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

H303	May be harmful if swallowed.
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For the full text of the H-Statements mentioned in this section, see section 16.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances		
Formula	Proprietary aminic phosphate polymer in water	25%
	Water	75%
Hazardous Components	Classification	Concentration
aminic phosphate polymer	eye (2B), mild skin irritation (3)	25%

\* Components are a Company Trade Secret – Business Confidential. Flame Seal Products Inc. is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200(i)(1)(2)(3)(4).

**SECTION 4 FIRST AID MEASURES**

4.1 Description of first aid measures	
<b>General advice</b>	Use good industrial hygiene procedures.
<b>If inhaled</b>	Not expected to be an issue in low quantities. Wear respirator rated for organic mist in if adequate ventilation is not available.
<b>In case of skin contact</b>	Wash with soap and plenty of water. If irritation occurs, get medical advice/attention.
<b>In case of eye contact</b>	Flush eyes with plenty of fresh water while holding eyelids open. Remove contact lenses if worn. If eye irritation persists, get medical advice/attention.
<b>If swallowed</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Flush mouth with water. If conscious give water to further dilute chemical. Consult physician.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) or in Section 11.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	No data available

**SECTION 5 FIRE FIGHTING MEASURES**

<b>5.1 Extinguishing media</b>	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fire).
<b>5.2 Special hazards arising from substance or mixture</b>	Heating and/or burning may liberate small amounts of ammonia, oxides of nitrogen and phosphorus.
<b>5.3 Advice for firefighters</b>	Not combustible (use safety equipment which is suitable for materials in surrounding fire).
<b>5.4 Further information</b>	No data available

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid breathing mist. Ensure adequate ventilation. Evacuate personnel from affected area. For personal protection, see Section 8.
<b>6.2 Environmental precautions</b>	Prevent further leakage or spillage, if safe to do so. Prevent material from entering public sewer system or any waterways.
<b>6.3 Methods and materials for containment and cleaning up.</b>	Confine spilled material and absorb with sand, sawdust, earth or other available solids. Sweep up and place in a suitable container for disposal.
<b>6.4 Reference to other sections</b>	See Section 13 for further disposal info.

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SDS v1.1 | Date : 05/24/2016

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**SECTION 7 HANDLING & STORAGE**

7.1	Precautions for safe handling	Wear appropriate protective equipment. Provide adequate ventilation. See Sections 2.2 and 8.
7.2	Conditions for safe storage, including any incompatibles	Keep container tightly sealed when not in use. Use good industrial practices to avoid spills.
7.3	Specified end use	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**

8.1	Control Parameters	No occupational exposure limits known.	
	Engineering Controls	Handle in accordance with good industrial and safety practices. Wash hands after handling.	
	Personal Protection Equipment	Respiratory Protection (Specify Type)	For heavy mist exposure, use a NIOSH/MSHA approved respirator suitable for use with organic vapors if proper ventilation cannot be provided.
		Protective Gloves	Wear impervious gloves as necessary to avoid excessive skin contact (i.e. rubber or neoprene)
		Eye Protection	Protective glasses or goggles in heavy mist areas.
		Other Protective Equipment	Adequate clothing to minimize direct contact with skin.
	Ventilation	Local Exhaust	Use exhaust fans if necessary to control mist or vapor.
		Mechanical (general)	Normal room ventilation.
		Special	NA

**SECTION 9 PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES**

9.1	Information on Basic Physical & Chemical Properties			
a)	Appearance	Clear liquid	k) Vapor pressure	No data available
b)	Odor	None	l) Vapor density	No data available
c)	Odor threshold	NA	m) Relative density	1.11 - 1.15
d)	pH	2.0 - 3.0	n) Water solubility	Completely soluble
e)	Melting/freezing point	NA / ~30 °F	o) Partition coefficient n-octanol/water	No data available
f)	Initial boiling point	~212 °F	p) Auto ignition temp	None
g)	Flash point	None to boiling	q) Decomposition temp	No data available
h)	Evaporation rate	No data available	r) Viscosity	13 - 20 cP
i)	Flammability	None	s) Explosive properties	No data available
j)	Upper/lower flamm limits	No data available	t) Oxidizing properties	No data available

**SECTION 10 STABILITY & REACTIVITY**

10.1	Reactivity	No data available
10.2	Chemical Stability	Stable under recommended storage conditions
10.3	Possibility of hazardous reactions	None known
10.4	Conditions to avoid	Evaporation – Keep container sealed tightly when not in use
10.5	Incompatible materials	Strong bases and alkalis
10.6	Hazardous decomposition products	Phosphorous, nitrogen oxides

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**SECTION 11 TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

<b>Acute toxicity</b>	LD50 > 5000mg/kg Conclusions drawn from relevant literature and documentation from similar products.
<b>Inhalation</b>	Not established. Not expected to be harmful. If necessary, use respirator if adequate ventilation is not possible to keep exposure to particulate matter at a minimum in heavy mist areas when spraying.
<b>Dermal</b>	May be irritating with continual contact.
<b>Skin corrosion/irritation</b>	No available data
<b>Serious eye damage/eye irritation</b>	May cause moderate eye irritation if exposed.
<b>Respiratory or skin sensitization</b>	Prolonged exposure may cause skin reddening.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	
IARC	No components of this product present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by IARC.
NTP	No components of this product present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by NTP.
OSHA	No components of this product present at levels $\geq 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by OSHA.
<b>Reproductive toxicity</b>	No data available
<b>Specific organ toxicity (single exposure)</b>	No data available
<b>Specific organ toxicity (repeated exposure)</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	None.

**SECTION 12 ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence &amp; degradability</b>	No data available
<b>12.3 Bioaccumulation potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT &amp; vPvP assessment</b>	Not required. Not conducted.
<b>12.6 Other adverse effects</b>	No data available

**SECTION 13 DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	
<b>Product</b>	Incinerate or bury in a suitable land fill where permitted by local regulations- or contact a licensed disposal facility.
<b>Contaminated packaging</b>	Dispose of a unused product.

**SECTION 14 TRANSPORT INFORMATION**

<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

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**SECTION 15 REGULATORY INFORMATION**

SARA 302 Components	No chemicals in this product are subject to the reporting requirements of SARA Title III, section 302.
SARA 313 Components	This product does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, section 313.
SARA 311/312	This product does not contain any SARA 311/312 hazards.
New Jersey, Pennsylvania, Massachusetts Right to Know Components	This product contains no listed components.
Clean Water Act	Section 311 lists phosphorous as a hazardous substance, which if discharged into or upon water, will present an imminent and substantial danger to public welfare. Spills of $\geq$ 5000 pounds (approx. 50,000 pounds of FSTB) must be reported to the National Response Center @ 1-800-424-8802.
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16 OTHER INFORMATION**

Full text of H-statements referred to under sections 2 and 3

H316 : 3 Cause mild skin irritation.

H320 : 2B Causes eye irritation.

Hazard pictograms not required per Tables 3.2.5, 3.2.5.1, 3.3.5, 3.3.5.1 of the GHS of Classification and Labeling of Chemicals Fifth Revised Edition.

Hazards by conclusion drawn from relevant literature and documentation from similar products.

**HMIS Rating**

Health hazard	1
Chronic health hazard	*
Flammability	0
Physical hazard	0

**NFPA**

Health hazard	0
Fire hazard	0
Reactivity hazard	0

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