

WOOD SEAL CLASS A TM

SAFETY DATA SHEET

	SECTION 1 PRODUCT & COMPA	NY INFORMATION
1.1	Product Identifier	
	Product Name	WOOD SEAL CLASS A™
	Brand	Flame Seal Products, Inc.
	CAS#	NA
1.2	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.
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

	SECTION 2 HAZARDS IDENTIFIC	ATION	
2.1	Classification of the substance or mixture		
	GHS Classification in accordance with 29 CFR 191	0 (OSHA HCS)	
	Eye irritation Category 2B, Skin irritation Category 3.		
2.2	GHS Label Elements, including precautionary sta	atements	
	Hazard Statements	WARNING	
	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	Other Hazards		

For the full text of the H-Statements mentioned in this section, see section 16.

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May be harmful if swallowed.



	SECTION 3 COMPO	SITION/INFORMATION ON IN	GREDIENTS	
3.1	Substances			
	Formula	*Proprietary aminic	phosphate polymer in water	30 +/- 5%
		*Proprietary perform	nance additives	10 +/- 5%
		Water		60 +/- 5%
	Hazardous Components	CAS#	Category	Concentration
	*aminic phosphate polymer	NA	eye irrit 2B, skin irrit, 3	12 +/- 5%
	Propan -2-diol (isopropanal)	67-63-0	Flam. Liq. 2, H225Eye Irrit. 2, H319	< 1%
			STOT SE 3, H336	

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

	SECTION 5 FIRE FIGHTING MEASURES		
5.1	Extinguishing media	Does not sustain combustion per ASM D4206 (use water spray, fog, foam, dry chemicals,	CO ₂ or other agents as appropriate for
		material in surrounding fire).	
5.2	Special hazards arisin	m substance Heating and/or burning may liberate small amounts of ammonia, oxides of nitrogen and pl	nosphorus.
	or mixture		
5.3	Advice for firefighters	Product can produce small flash if container has been heated and/or has been stored long e	nough for some propan-2-diol
		(isopropanal) to evolve from the liquid and is then opened in the presence of a fire or ignit	ion source.
5.4	Further information	No data available.	

	SECTION 6 ACCIDENTAL RELEASE MEASURES		
6.1	Personal precautions, protective equipmen	Use personal protective equipment. Avoid breathing mist. Ensure adequate ventilation. Evacuate personnel from affected area.	
	and emergency procedures	For personal protection, see Section 8.	
6.2	Environmental precautions	Prevent further leakage or spillage, if safe to do so. Keep out of public sewers and waterways.	
6.3	Methods and materials for containment	Confine spilled material and absorb with sand, sawdust, earth or other available solids. Sweep up and place in a suitable	
	and cleaning up.	container for disposal.	
6.4	Reference to other sections	See Section 13 for further disposal info.	

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	SECTION 7 HANDLING & STO	DRAGE
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,	Keep container tightly sealed when not in use. Use good industrial practices to avoid spills.
	including any incompatibles	
7.3	Specified end use.	Apart from the uses mentioned in section 1.2. no other specific uses are stipulated.

Control Parameters					
Components					
Propan-2-diol	67-63-0	TWA	200 ppm	ACGIH	
		STEL	400 ppm	ACGIH	
		TWA	400 ppm	NIOSH REL	
			980 mg/m^3		
		ST	500 ppm	NIOSH REL	
			1,225 mg/m ³		
		TWA	400 ppm	OSHA Z-1	
			980 mg/m^3		
Engineering Controls	Handle in accordance with good	od industrial and safety practi	ces. Wash hands after handling		
Personal Protection Equipment	rsonal Protection Equipment Respiratory Protection Ge		General and local exhaust ventilation is recommended to maintain vapor exposures below		
(Specify		recommended limits. When	re concentrations are above rec	ommended limits or are unknow	
		appropriate respiratory pro-	tection should be worn. Follow	OSHA respirator regulations (29	
		CFR 1910.134) and use NI	OSH/MSHA approved respira	tors.	
	Protective Gloves	Material:	Nitrile rubber		
		Break through time:	> 480 min		
		Glove thickness:	0.38 mm		
		Directive:	DIN EN 374		
		Protective index:	Class 6		
	Eye Protection	Protective glasses or goggl	es in heavy mist areas.		
	Other Protective	Adequate clothing to minir	mize direct contact with skin.		
	Equipment				
Ventilation	Local Exhaust	Use exhaust fans if necessar	ary to control mist or vapor.		
	Mechanical (general)	Normal room ventilation.			
	Special	NA			

9.1	Information on Basic Physical & Chemical Properties					
	a)	Appearance	Clear to slightly cloudy liquid	k)	Vapor pressure	No data available
	b)	Odor	Slight alcohol	l)	Vapor density	No data available
	c)	Odor threshold	NA	m)	Relative density	1.18 - 1.23
	d)	рН	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	>200 °F	(q	Auto ignition temp	None

 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

Decomposition temp

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>200 °F

PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES

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g) Flash point

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No data available



	SECTION 10	STABILITY & REACTI	VITY
10.1	Reactivity		No data available
10.2	Chemical Stability		Stable under recommended storage conditions. Some settling of solids is normal over time.
10.3	Possibility of hazardo	ous reactions	None known
10.4	Conditions to avoid		Evaporation – Keep container sealed tightly when not in use
10.5	Incompatible materia	als	Strong bases and alkalis
10.6	Hazardous decompos	sition products	Phosphorous, nitrogen oxides

Information on toxicological effects (Undiluted Chemicals)				
Acute toxicity	LD50 > 5000 mg/kg	LD50 > 5000 mg/kg		
	Conclusion from releva	ant data.		
Inhalation	Not established. Not ex	xpected to be harmful. Use respirator if adequate ventilation is not possible to keep exposure to a minimu		
	in heavy mist areas if s	in heavy mist areas if spraying. May cause dizziness or drowsiness at extreme exposure levels.		
Dermal	May be irritating with	continual contact.		
Skin corrosion/irritation	No data available	No data available		
Serious eye damage/eye irrit	ation May cause moderate e	ye irritation if exposed.		
Respiratory or skin sensitiza	tion Prolonged exposure ma	ay cause skin reddening.		
Germ cell mutagenicity	No data available			
Carcinogenicity				
IARC	No components of this p	product present at levels \geq 0.1% is identified as a probable, possible, or confirmed human carcinogen by IAR		
NTP	No components of this p	product present at levels \geq 0.1% is identified as a probable, possible, or confirmed human carcinogen by NTI		
OSHA	No components of this p	product present at levels \geq 0.1% is identified as a probable, possible, or confirmed human carcinogen by OSF		
Reproductive toxicity (Ingred	ients) Isopropanol	Effects on fertility: Test Type: Two-generation reproduction toxicity study		
		Species: Rat / Application Route: Ingestion / Result: negative		
		Effects on fetal development: Test Type: Embryo-fetal development		
		Species: Rat / Application Route: Ingestion / Result: negative		
		Formaldehyde: Effects on fetal development: Test Type: Embryo-fetal development		
		Species: Rat / Application Route: inhalation (gas) / Result: negative		
		STOT-single exposure / Not classified based on available information.		
	Propan-2-ol	Assessment: May cause drowsiness or dizziness.		
		Formaldehyde: Assessment: May cause respiratory irritation.		
		STOT-repeated exposure / Not classified based on available information.		
	Formaldehyde	Assessment: No significant health effects observed in animals at concentrations of		
		250 ppmV/6h/d or less.		
Aspiration hazard	No data available.			
Additional Information	None.			

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2.1	Toxicity (Ingredier	nt)			
	Amenic phosphate polymer		No data available		
	Propan-2-diol	Toxicity to fish		LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l	
				Exposure time: 96 h	
		Toxicity to daphnia & o	ther aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l	
				Exposure time: 24 h	
		Toxicity to bacteria		EC50 (Pseudomonas putida): > 1,050 mg/l	
				Exposure time: 16 h	
12.2	Persistence & degradability				
	Ingredient				
	Amenic phosphate	polymer	No data available		
	Propan-2-diol (Bio	degradability Result)	Rapidly degradable		
12.3	Bioaccumulation	ootential			
	Ingredient				
	Amenic phosphate	polymer	No data available		
	Propan-2-diol (Par	tition coefficient:	log Pow: 0.05		
	n-octanol/water)				
12.4	Mobility in soil		No data available.		
12.5	Results of PBT & v	/PvP assessment	Not required. Not conducted	d.	
12.6	Other adverse effo	ects	No data available.		

SECTION 13	DISPOSAL CONSIDERATIONS

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

SECTION 14	TRANSPORT INFORMATION
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
ΙΔΤΔ	Not dangerous goods

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	RMATION		
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.		
CERCLA Reportable Quantity	None.		
New Jersey, Pennsylvania, Massachusetts	Propan-2-diol	CAS # 67-63-0	< 1%
Right to Know 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 >= 5000 pounds (approx. 50,000 pounds of FSTB) must be reported to the National Response Center @ 1-800-424-8802. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other		
California Prop. 65 Components			
	reproductive harm.		

SECTION 16	OTHER INFORMATION					
Full text of H-stat	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	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 conclusi	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				

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Fire hazard

Reactivity hazard

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