

FIRE RETARDANT COATING

# **FX100® INTUMESCENT COATING**

# SAFETY DATA SHEET

	SECTION 1 PRODUCT & COMP.	ANY INFORMATION
1.1	Product Identifier	
	Product Name	FX100 <sup>®</sup> INTUMESCENT COATING
	Brand	Flame Seal Products, Inc.
	CAS#	NA
1.2	Relevant identified uses of the substance or m	ixture and uses advised against
	Identified uses	Intumescent fire retardant coating.
1.3	Details of the Supplier of the Safety Data Shee	t
	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 IDENTIFICATION
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2.1	Classification	of the substance	or mivturo

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritant (2B), Skin irritant (3)

## 2.2 GHS Label Elements, including precautionary statements

	one Labet Learners, metaling procedurers		
	Hazard Statements WARNING		
H316 : 3 Causes mild skin irritation. H320 : 2B Causes eye irritation.		Causes mild skin irritation.	
		Causes eye irritation.	
	Precautionary Statements		
P202 Do not handle until all safety precautions have been read and understood.  P264 Wash skin thoroughly if exposed.		Do not handle until all safety precautions have been read and understood.	
		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.

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	57 +/- 5%	
		Proprietary performance additives (non hazardous)	12 +/- 5%	
		Water	31 +/- 5%	
	Hazardous Components	Classification	Concentration	
	amine phosphate polymer	eye (2), mild skin irritant (3)	57 +/- 5%	

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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 person. Flush mouth with water. If conscious give		
		water to further dilute chemical. Consult physician.		
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			
F 1	SECTION 5 FIRE FIGHTING MEA			
5.1	SECTION 5 FIRE FIGHTING MEA	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fir		
5.1 5.2	SECTION 5 FIRE FIGHTING MEA			
	SECTION 5 FIRE FIGHTING MEA  Extinguishing media  Special hazards arising from substance	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fir		
5.2	SECTION 5 FIRE FIGHTING MEA  Extinguishing media  Special hazards arising from substance or mixture	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding find Heating and/or burning may liberate small amounts of ammonia.		
5.2 5.3	SECTION 5 FIRE FIGHTING MEA  Extinguishing media  Special hazards arising from substance or mixture  Advice for firefighters	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fur Heating and/or burning may liberate small amounts of ammonia.  Not combustible (use safety equipment which is suitable for materials in surrounding fire).		
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	SECTION 7	HANDLING & STORA	GE
7.1	7.1 Precautions for safe handling		Wear appropriate protective equipment. Provide adequate ventilation. See Sections 2.2 and 8.
7.2	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		Rated fire protective coating for wood plastic and other substrates. See TDS for more information

container for disposal.

See Section 13 for further disposal info.

Prevent further leakage or spillage, if safe to do so. Keep out of drains.

Confine spilled material and absorb with sand, sawdust, earth or other available solids. Sweep up and place in a suitable

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6.2

6.3

6.4

**Environmental precautions** 

Reference to other sections

and cleaning up.

Methods and materials for containment



	SECTION 8 EXPOSURE CONTRO	L/PERSONAL PROTECT	TION
8.1	Control Parameters		
	Components with workplace control parameters	NA	
	Engineering Controls	Handle in accordance with goo	nd industrial and safety practices. Wash hands after handling.
	Personal Protection Equipment	Respiratory Protection	For heavy mist exposure, use a NIOSH/MSHA approved respirator suitable for use with
		(Specify Type)	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	Adequate clothing to minimize direct contact with skin.
		Equipment	
	Ventilation	Local Exhaust	Use exhaust fans if necessary to control mist or vapor.
		Mechanical (general)	Normal room ventilation.
		Special	NA

	SECT	10N 9 PHYSICAL P	ROPERTIES AND CHEMICA	L PROPER	RTIES	
9.1	Inforr	mation on Basic Physical & Chem	nical 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	1.36 - 1.41
	d)	pH	2.0 - 3.0	n)	Water solubility	Completely soluble
	e)	Melting/freezing point	NA/~30 °F	0)	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	400-600 cP Brookfield
	i)	Flammability	None	s)	Explosive properties	No data available
	il	Upper/lower flamm limits	No data available	t)	Oxidizing properties	No data available

	SECTION 10 STABILITY & REACT	IVITY
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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Information on toxicological effects (Undiluted Chemicals)		
Acute toxicity	LD50 Oral (rat) > 2000 mg/kg	
	LD50 Dermal (rat) > 5000 mg/kg	
	Conclusions drawn from relevant literature and documentation from similar products.	
Inhalation	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.	
Dermal	May be irritating with continual contact.	
Skin corrosion/irritation	No available data	
Serious eye damage/eye irritation	May cause moderate eye irritation if exposed.	
Respiratory or skin sensitization	Prolonged exposure may cause skin reddening.	
Germ cell mutagenicity	No data available	
Carcinogenicity		
IARC	No components of this product present at levels >= 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC	
NTP	No components of this product present at levels $>= 0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by NTP.	
OSHA	No components of this product present at levels >= 0.1% is identified as a probable, possible, or confirmed human carcinogen by OSHA	
Reproductive toxicity (Ingredients)	No data available	
Specific organ toxicity (single exposure)	No data available	
Specific organ toxicity (repeated exposure)	No data available	
Aspiration hazard	No data available	
Additional Information	RTECS: ED4550000	

12.1	Toxicity (Undituted Chemicals/Ingredients)				
	Toxicity to fish		LC50 – Ptychocheilus Lucius – 279 mg/l - 96h		
			Rainbow trout -> 85.9 mg/l - 96h OECD Test 203		
			LC0 – Lepomis macrochirrrus (Bluegill) -> 1021 mg/l - 96h		
	Toxicity to daphnia & other aquatic invertebrates		LC50 – Daphnia Magna (Bluegill) – 53.2 mg/l - 21d		
			EC50 – Daphnia Magna (Water flea) – 133 mg/l -21d		
		Conclusions drawn from relevant literature and documentation from similar products.			
12.2	Persistence & degradability	No data available			
12.3	Bioaccumulation potential	No data available			
12.4	Mobility in soil	No data available			
12.5	Results of PBT & vPvP assessment	Not required. Not conducted.			
12.6	Other adverse effects	No data available			

### SECTION 13 DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods		
	Product	Incinerate or mix with T50 curing agent and allow mixture to solidify, then bury in a suitable land fill where permitted by local	
		regulations. Or contact a licensed disposal facility.	

Dispose of a unused product.

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Contaminated packaging



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

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	This product contains no listed components.			
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.			
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			

ctions 2 and 3								
	Full text of H-statements referred to under sections 2 and 3							
Cause mild skin irritation.								
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.								
Health hazard	1							
Chronic health hazard	*							
Flammability	0							
Physical hazard	0							
Health hazard	0							
Fire hazard	0							
Reactivity hazard	0							
	Causes eye irritation.  2.5.1, 3.3.5, 3.3.5.1 of the GHS or and documentation from similar the analysis of the analysis of the GHS or and documentation from similar the analysis of the analy							

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