

FIRE PROTECTIVE COATING

SAFETY DATA SHEET

	SECTION 1	PRODUCT & COMPANY INFORMATION
1.1	Product Identifier	
	Product Name	FS-IB [™] IGNITION BARRIER
	Brand	Flame Seal Products, Inc.
	CAS #	NA/mixture
1.2	Relevant identified use	es of the substance or mixture and uses advised against
	Identified uses	Water based fire retardant paint.
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 IDENTIFICATION 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritant, eye irritant For the full text of the H-statements mentioned in this section, see Section 16.

2.2 GHS Label Elements, including precautionary statements

		WARNING
	Hazard Statements	
	H316 : 3	May causes mild skin irritation.
	H320 : 2B	Causes eye irritation.
	Precautionary Statements	
	P103	Read label before use.
P264 Wash hands thoroughly after handling.		Wash hands thoroughly after handling.
	P280	Wear eye/face protection.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
	P332 + 313	If skin irritation occurs: get medical advice/attention.
	P337 + P313	If eye irritation persists: get medical advice/attention.
	P404	Store in a closed container.
	P501	Dispose of contents/container using approved waste disposal facility.
2.3	Hazards not otherwise classified (HNOC) or not c	overed by GHS

H303

May be harmful if swallowed.

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

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SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

5.1	.1 Substances			
	Formula	Water based latex paint wi	Water based latex paint with intumescent additives.	
	Hazardous Components		Classification	Concentration
	Titanium dioxide	CAS # 13463-67-7	See Section 11 for hazards	
	Melamine	CAS # 108-78-1	Nuisance and combustible	<20%
			dust in dry form	
	Pentaerythritol	CAS # 115-77-5	Nuisance and combustible	<20%
			dust in dry form	

	SECTION 4 FIRST AID MEASURE	ES
4.1	Description of first aid measures	
	General advice	Move out of dangerous area. Consult a Physician. Show this Safety Data Sheet to Physician.
	If inhaled	Not expected to be an issue.
	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	

	SECTION 5 FIRE FIGHT	TING MEASURES
5.1	Not combustible (use water spray, fog, foam, dry chemicals, CO2 or other agents as appropriate for material in surrounding fire).	
5.2	Special hazards arising from substa	Heating and/or burning may liberate small amounts of ammonia.
	or mixture	
5.3 Advice for firefighters Not combustible (use safety equipment which is suitable for mate		Not combustible (use safety equipment which is suitable for materials in surrounding fire).
5.4	Further information	No data available

	SECTION 6 ACCIDENTAL RELEA	SE MEASURES
6.1	Personal precautions, protective equipment	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 drains.
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	RAGE	
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. Exposure to strong bases	
	including any incompatibles	and/or heat may liberate ammonia.	
7.3 Specified end use		ICC certified Ignition Barrier alternative for tested spray applied polyurethane foam in attics and crawl spaces.	

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1	Control Parameters				
	Components:			ACGIH	OSHA
	Titanium Dioxide (respirable form)	CAS # 13463-67-7	EC # 236-675-5	10mg/m3 TLV-TWA	15 mg/m ³
				respirable fraction 1 mg/m3	Total dust 8 hr TWA
	Engineering Controls	Handle in accordance with goo	od industrial and safety practices	. Wash hands after handling.	
	Personal Protection Equipment	Respiratory Protection	For heavy mist exposure, use	a NIOSH/MSHA approved respi	rator suitable for use with
		(Specify Type)	organic vapors if proper ventil	ation cannot be provided.	
		Remediation or sanding	Contains titanium dioxide whi	ich is considered a potential huma	an carcinogen in respirable
			form. Do not breath dust. Use	measures to control dust to publi	ished exposure level limits.
			Otherwise wear NIOSH suital	ole respirator for hazardous dust -	- N100, P100, R100 filters.
		Protective Gloves	Wear impervious gloves as ne	cessary to avoid excessive skin c	ontact (i.e. rubber or neoprene)
		Eye Protection	Protective glasses or goggles i	n heavy mist areas.	
		Other Protective	Adequate clothing to minimiz	e 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	ION 9	PHYSICAL PRO	PERTIES AND CHEMICAL P	ROPER	TIES	
9.1	Inforn	nation on Basic	Physical & Chemica	l Properties			
	a)	Appearance		White liquid	k)	Vapor pressure	No data available
	b)	Odor		Slight amine	L)	Vapor density	No data available
	c)	Odor threshol	d	NA	m)	Relative density	1.25-1.32 g/cm ³
	d)	pН		7.5 - 8.5	n)	Water solubility	Partially soluble
	e)	Melting/freezi	ing point	NA/~32 °F	o)	Partition coefficient n-octanol/water	No data available
	f)	Initial boiling	point	~212 °F	p)	Auto ignition temp	None
	g)	Flash point		No data available	(p	Decomposition temp	No data available
	h)	Evaporation ra	ate	No data available	r)	Viscosity	90 - 130 Ku
	i)	Flammability		None	s)	Explosive properties	No data available
	j)	Upper/lower f	lamm limits	No data available	t)	Oxidizing properties	No data available

	SECTION 10 STABILITY & REACTI	VITY
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	Ammonia, nitrous oxides

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· · · · · · ·	Information on toxicological effects				
Acute toxicity	LD50 (rat) > 2000 mg/kg				
	Conclusion by analogy.				
Inhalation	Not established. Not expected to be harmful. If necessary, use respirator if adequate ventilation is not possible to keep exposu				
	to particulate matter at a minimum in heavy mist areas when spraying.				
Dermal	Not established, not expected to be harmful. May be irritating with continual contact.				
Skin corrosion/irritation	No data available				
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	Titanium Dioxide – Respirable form				
IARC	Group 2B: Possibly carcinogenic to humans.				
	(a) Although IARC has classified titanium dioxide as a possible carcinogenic to humans (2B), their summary concludes:				
"No significant exposure to titanium dioxide is thought to occur during the use of products which t					
	bound to other materials, such as paints."				
	(b) OSHA does not regulate titanium dioxide as a carcinogen. However, under 29CFR 1910.1200 the SDS must convey				
	fact that titanium dioxide is a potential carcinogen to rats. See additional information below.				
	Note: Normal application procedures for this product pose no hazard as to the release of respirable titanium dioxide dust, b				
	grinding or sanding dried films of this product may yield respirable titanium dioxide. Use appropriate protection.				
Reproductive toxicity	No chemicals present in the product are known to cause fertility issues.				
Specific organ toxicity (single exposure)	No data available				
Specific organ toxicity (repeated exposure)	No data available				
Aspiration hazard	No data available.				

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SECTION 12 ECOLOGICAL INFORMATION

12.1	Toxicity		
	Toxicity to fish		LD50 - Rainbow trout (Oncorhynchus mykiss) > 150 mg/l - 96h
			LD50 - Fathead minnow (Pimephalas promelas) > 150 mg/l - 96h
			Conclusion by analogy
	Toxicity to daphnia & other aquatic invertebrates		No data available.
			Conclusions drawn from relevant literature and documentation from similar products.
12.2	Persistence & degradability	Polymer component not readily	y biodegradable. Elimination by activated sludge. Separation by flocculation is possible.
12.3	Bioaccumulation potential No adverse effects expected.		
12.4	Mobility in soil No adverse effects expected.		
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 me	thods
	Product	Liquid - Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
		Dried product - Should be disposable as non hazardous solid waste. Check local regulations.
	Contaminated packa	ging Empty containers may retain product residue and should be handled accordingly. Empty containers should be taken to an
		approved waste handling site for recycling or disposal. Do not re-use containers.

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

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	Chronic health hazard.
New Jersey, Pennsylvania, Massachusetts	Melamine CAS # 108-78-1
Right to Know Components	Titanium Dioxide CAS # 13463-67-7
California Prop. 65	WARNING! This product contains a chemical known to the state of California to cause cancer in respirable form. Titanium
	Dioxide. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any
	other reproductive harm.
WHMIS	D2A – Carcinogen as respirable dust. Titanium Dioxide.
IARC	Group 2B – Possible human carcinogen – as respirable dust. Titanium Dioxide.
RTECS #	XR 2275000 – Titanium Dioxide
HAPS	No HAPS are present in this product at reportable levels.
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.

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Full text of H-statements refe	rred to under sections 2 and 3	
H316 : 3	Cause mild skin irritation.	
H320 : 2B	Causes eye irritation.	
Hazard pictograms not required p	er Tables 3.2.5, 3.2.5.1, 3.3.5, 3.3.5.1 of the GHS o	of Classification and Labeling of Chemicals Fifth Revised Edition.
Hazard conclusions drawn from r	elevant literature and documentation from similar	products.
Titanium dioxide included in the	Candidate List of Substances of Very High Concern	n (SVHC) according to Regulation(EC) No. 1907/2006(REACH) - Respirable form.
	, ,	
HMIS Rating	Health hazard	1
HMIS Rating		1 *
HMIS Rating	Health hazard	1
HMIS Rating	Health hazard Chronic health hazard	1 *
HMIS Rating	Health hazard Chronic health hazard Flammability	1 * 0
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The information in this document is based on the present state of Flame Seal Products' knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantees to the properties of the product. Flame Seal Products shall not be held liable for any damage from handling or from contact with the above product.

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Reactivity hazard

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