

FIRE RETARDANT - SYNTHETICS FABRICS

FABRIC SEAL S™

<u>Safety data sheet</u>

	SECTION 1 PRODUCT & COMPAN	NY INFORMATION	
1.1	Product Identifier		
	Product Name	FABRIC SEAL S™ SYNTHETIC FABRICS	
	Brand	Flame Seal Products, Inc.	
	CAS#	NA/mixture	
1.2	Relevant identified uses of the substance or mix	ture and uses advised against	
	Identified uses	Fire retardant liquid for treating synthetic fabrics and blends.	
1.3	Details of the Supplier of the Safety Data Sheet		
	Company	Flame Seal Products, Inc.	
		9420 Knight Road	
		Houston, TX 77045 USA	
	Telephone	713-668-4291	
	Fax	713-668-1724	
1.4	Emergency telephone number		
	Emergency #	800-424-9300	

HAZARDS IDENTIFICATION SECTION 2

Classification of the substance or mixture

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

Reproductive toxicity (2), eye irritant (2A).

GHS Label Elements, including precautionary statements





	WARNING
Hazard Statements	V V
H319 : 2A	Causes serious eye irritation.
H361 : 2	Suspected of damaging fertility or the unborn child.
Precautionary Statements	
P201	Obtain special instructions before use.
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.
P308 + P313	If exposed or concerned, get medical advice.
P332 + 313	If skin irritation occurs: get medical advice/attention.
P337 + P313	If eye irritation persists: get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container using approved waste disposal facility.
Other Hazards	
11000	

May be harmful if swallowed.

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

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



	SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS					
3.1	Substances					
	Formula		mixture of inorganic s	alts in water		
	Hazardous Compor	nents	CAS#	Classification	Concentration	
	Potassium Bromide		7758-02-3	eye irrit, (2A)	5 - 10%	
	Boric acid		10043-35-3	repr. 2, H361	< 1 %	
	For the full text of the	H-Statements mentioned in this	section, see Section 16.			

	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 small quantities. Remove to fresh air.		
In case of skin contact Wash with soap and plenty of water. If irritation occurs, get medical advice/attention		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 FI	GHTING MEASURES			
5.1	Extinguishing media	Not combustible (use water spray, fog, foam, dry chemicals, CO ₂ or other agents as appropriate for material in surrounding fire).			
5.2	Special hazards arising from substance Heating and/or burning may liberate small amounts of ammonia. Oxides of nitrogen and phosphorous, hydrogen bromide				
	or mixture				
5.3	Advice for firefighters Not combustible (use safety equipment which is suitable for materials in surrounding fire).				
5.4	Further information No data available				

	SECTION 6	ACCIDENTAL RELEA	ASE MEASURES
6.1	Personal precautions, protective equipment		Use personal protective equipment. Avoid breathing mist. Ensure adequate ventilation. Evacuate personnel from affected area.
	and emergency prod	cedures	For personal protection, see Section 8.
6.2	Environmental prec	autions	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 s	sections	See Section 13 for further disposal info.

	SECTION 7 H	NDLING & STORAGE
7.1	Precautions for safe har	ling Wear appropriate protective equipment. Provide adequate ventilation. See Sections 2.2 and 8.
7.2	Conditions for safe stor	e, Keep container tightly sealed when not in use. Use good industrial practices to avoid spills. Exposure to strong bases and/or
	including any incompati	heat may liberate ammonia. Salt solution – may be corrosive to some metals.
7.3	Specified end use.	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Flame Seal Products, Inc. 9420 Knight Road, Houston, TX 77045 USA

www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | **Emergency No. (Chemtrec): 800-424-9300**

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

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.

8.1



	SECTION 8	EXPOSURE CONTROL/PERSONAL PROTECTION
--	-----------	--------------------------------------

	_,	
Control Parameters		
Components with workplace control parameters	None in solution form.	
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 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

SECTION 9 PHYSICAL PROPERTIES AND CHEMICAL PROPERTIES

9.1	.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	$1.10 - 1.20 \text{ g/cm}^3$
	d)	рН	5.5 - 6.5	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	10-14 cP Brookfield
	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 & REACTI	VITY
10.1	Reactivity		No data available
10.2	Chemical Stability		Stable under recommended storage conditions
10.3	Possibility of hazard	ous reactions	None known
10.4	Conditions to avoid		Evaporation – Keep container sealed tightly when not in use
10.5	Incompatible materi	als	Strong bases and alkalis
10.6	Hazardous decompo	sition products	Ammonia, nitrous oxides

Flame Seal Products, Inc. 9420 Knight Road, Houston, TX 77045 USA www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | Emergency No. (Chemtrec): 800-424-9300

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



	SECTION 11 TOXICOLOGICAL INI	FORMATION
11.1	Information on toxicological effects (Undiluted	Chemicals)
	Acute toxicity	LD50 Oral (rat) > 2000 mg/kg
		LD50 Dermal (rat) > 5000mg/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 \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.
	Reproductive toxicity (Ingredients)	In animal testing, risk of impaired fertility was shown only after administration of very high doses of Boric Acid.
	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
		Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps,
		and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia,
		cyanosis, delirium, convulsions, and coma. Death has been reported to occur in infants from less than 5 grams and in adults
		from 5 to 20 grams. Liver - irregularities - Based on Human Evidence.
	E	onmental effects of Boron compounds, see The Optibor® Boric Acids SDS.

	SECTION 12	ECOLOGICAL IN	IFORMATION	
12.1	Toxicity (Undiluted	Chemicals)		
		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 8	other aquatic invertebrates	LC50 – Daphnia Magna (Bluegill) – 53.2 mg/l - 21d
				EC50 – Daphnia Magna (Water flea) – 133 mg/l - 21d
12.2	Persistence & degr	adability	No data available	
12.3	Bioaccumulation po	otential	No data available	
12.4	Mobility in soil		No data available	
12.5	Results of PBT & vF	PvP assessment	Not required. Not conducted.	
12.6	Other adverse effect	tts	No data available	

SECTION 13 DISPOSAL CONSIDERATIONS

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

Flame Seal Products, Inc. 9420 Knight Road, Houston, TX 77045 USA

www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | **Emergency No. (Chemtrec): 800-424-9300**

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

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.



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

SECTION 15 REGULATORY I	NFORMATION	
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	Not classified	
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.	
REACH	Boric Acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC)	
	No 1907/2006 (REACH).	

ull text of H-statements refer	red to under sections 2 and 3			
1319 : 2A	Causes serious eye irritation	Causes serious eye irritation.		
861 : Repr. 2	Suspected of damaging fer	Suspected of damaging fertility or the unborn child.		
zard declaration not required on	product label per Table 3.7.1, Note 3 of the GHS	of Classification and Labeling of Chemicals – Fifth Revised Edition		
MIS Rating	Health hazard	1		
	Chronic health hazard	*		
	Flammability	0		
	Physical hazard	0		
PA	Health hazard	0		
	Fire hazard	0		

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Flame Seal Products, Inc. knowledge, or obtained from sources believed by Flame Seal Products, Inc. to be accurate, and Flame Seal Products, Inc. does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.

Flame Seal Products, Inc. 9420 Knight Road, Houston, TX 77045 USA

www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | **Emergency No. (Chemtrec): 800-424-9300**

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

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.