

#### FIRE RETARDANT - SYNTHETICS FABRICS

# **FABRIC SEAL C™ CONCENTRATE**

# SAFETY DATA SHEET

	SECTION 1 PRODUCT & COMPAI	NY INFORMATION
1.1	Product Identifier	
	Product Name	FABRIC SEAL C™ CONCENTRATE
	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

#### SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

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

2.2 GHS Label Elements, including precautionary statements





#### WARNING

		WARNING
	Hazard Statements	<b>V</b> 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 wom.
	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.
2.3	Other Hazards	
	H303	Mav be harmful if swallowed.

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 CO	MPOSITION/INFOR	MATION ON INC	REDIENTS		
3.1	Substances					
	Formula		mixture of inorganic	salts in water		
	Hazardous Components		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-Stat	tements mentioned in this se	ection, 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.
	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 FIGHTING MEA	SURES
5.1	Extinguishing media	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fire).
5.2	5.2 Special hazards arising from substance Heating and/or burning may liberate small amounts of ammonia. Oxides of nitrogen and phosphorous, hydrogen and phosphorous in the substance of the sub	
	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 precaution	s, 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	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	.4 Reference to other sections See Section 13 for further disposal info.		

	SECTION 7 HANDLING & ST	ORAGE
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. Exposure to strong bases at	
	including any incompatibles	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.

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SECTION 8	EXPOSURE CONTROL/PERSONAL PROTECTION

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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.	

#### 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	1.19 - 1.23 g/cm <sup>3</sup>
	d)	рН	5.5 - 6.5	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	12-18 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

Special NA

	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	Ammonia, nitrous oxides	

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	SECTION 11 TOXICOLOGICAL INFORMATION		
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 INFORMATION			
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 & oth	ner 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 potential  Mobility in soil		No data available	
12.4			No data available	
12.5	Results of PBT & vF	PvP assessment	Not required. Not conducted.	
12.6	Other adverse effect	cts	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		

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

SECTION 15 REGULATORY I	ION 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	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).				

SECTION 16 OTHER INFORMATION						
Full text of H-statements referred to under sections 2 and 3						
H319:2A	Causes serious eye irritation.					
H361 : Repr. 2	Suspected of damaging fertility or the unborn child.					
Hazard declaration not required on product label per Tabl	le 3.7.1, Note 3 of the GHS of C	Classification and Labeling of Chemicals – Fifth Revised Edition				
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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