

#### FIRE RETARDANT - NATURAL FIBERS

# **FABRIC SEAL N™**

## SAFETY DATA SHEET

	SECTION 1 PRODUCT & COMPANY INFORMATION		
1.1	Product Identifier		
	Product Name	FABRIC SEAL N™ NATURAL FIBERS	
	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 natural and synthetic fabrics.	
1.3	Details of the Supplier of the Safety Data Sheet	s 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

Hazard Statements	<b>V V</b>
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	
11202	M1-1-1

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/INFO	RMATION ON INC	REDIENTS		
3.1	Substances					
	Formula		Mixture of inorganic	salts in water.		
	Hazardous Compon	ents	CAS#	Classification	Concentration	
	Potassium Bromide		7758-02-3	eye irrit, (2A)	2 - 10%	
	Boric acid		10043-35-3	repr. 2, H361	< 0.5 %	
	For the full text of the	H-Statements mentioned in this	section, see Section 16.			

	SECTION 4 FIRST AID MEASURE	ES .		
4.1	.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 MEASURES			
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	Special hazards arising from substance 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 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 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.

	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	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. Salt solution - may be corrosive to some metals with prolonged exposure.
7.3	Specified end use.	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

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8.1



Control Parameters		
Components with workplace control parameters	None in solution form.	
Engineering Controls	Handle in accordance with goo	d 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

	SECTION / THISICALL ROLL ENTIES AND CHEMICALL ROLL ENTIES					
9.1	7.1 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	$1.05 - 1.09 \text{ g/cm}^3$
	d)	рН	6.0 - 7.0	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	~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	9-14 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

Special NA

	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	Ammonia, nitrous oxides

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SECTION 11 TOXICOLOGI	SECTION 11 TOXICOLOGICAL INFORMATION			
.1 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 $\geq$ 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC.			
NTP	No components of this product present at levels $\ge 0.1\%$ 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)	In animal testing, risk of impaired fertility was shown only after administration of very high doses of Boric Acid.			
Specific organ toxicity (single exposu	re) No data available			
Specific organ toxicity (repeated expo	sure) 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.			
For further information on the toxicological	al and environmental effects of Boron compounds, see The Optibor® Boric Acids SDS.			

	SECTION 12	ECOLOGICAL INFORM	MATION			
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 & other aquatic invertebrates		LC50 – Daphnia Magna (Bluegill) – 53.2 mg/l – 21d		
				EC50 – Daphnia Magna (Water flea) – 133 mg/l -21d		
12.2	Persistence & degra	adability	No data available			
12.3	Bioaccumulation po	tential	No data available			
12.4	Mobility in soil		No data available			
12.5	Results of PBT & vP	vP assessment	Not required. Not conducted.			
12.6	Other adverse effec	ts	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	PORT INFORMATION	
DOT (US)	Not dangerous goods	
IMDG	Not dangerous goods	
IATA	Not dangerous goods	

SECTION 15 REGULATORY II	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	No components listed.	
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 s	ections 2 and 3		
H319:2A	Causes serious eye irritatio	on.	
H361 : Repr. 2	Suspected of damaging fer	Suspected of damaging fertility or the unborn child.	
Hazard declaration not required on product label po	er Table 3.7.1, Note 3 of the GHS	S of 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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