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[Material Safety Data Sheet \(MSDS\)](#)

## ForceField<sup>®</sup> FireGuard<sup>™</sup> Flame Retardant for Fabrics

### MATERIAL SAFETY DATA SHEET

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#### SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name:	ForceField FireGuard Flame Retardant for Fabrics	Date Printed:	3/22/2010
Product Use/Class:	Water-Based Flame Retardant	Product ID:	F FGD
Supplier:	Shield Industries, Inc.	Manufacturer:	Shield Industries, Inc.
Address:	131 Smokehill Lane Woodstock, GA 30188 - USA	Address:	131 Smokehill Lane Woodstock, GA 30188 - USA
Telephone:	770-517-6869	24 Hour Emergency Hotline:	800-535-5053

#### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS:

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT %
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1. Organic Ammonium Salt (Proprietary) Trade Secret <40%

All ingredients in this product are non-photochemically active.

### SECTION 3 – HAZARD/ IDENTIFICATION:

APPEARANCE: Clear to Turbid Pale Yellow/Amber Liquid

ODOR: Mild Characteristic

PHYSICAL STATE: Water Emulsifiable Liquid

\*\*\* EMERGENCY OVERVIEW \*\*\* CAUSES MILD EYE IRRITATION

#### **EFFECTS OF OVEREXPOSURE:**

EYE CONTACT: Contact will cause stinging of eyes followed by irritation.

SKIN CONTACT: Prolonged and repeated skin exposure may be irritating to some people.

INGESTION: Effects of ingestion are unknown. Seek medical attention as needed.

INHALATION: High vapor concentrations may cause nasal and respiratory irritation.

CHRONIC HAZARDS: None Known.

PRIMARY ROUTE(S) OF ENTRY: Ingestion, Inhalation, Skin, Eyes

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### **SECTION 4 – FIRST AID MEASURES:**

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, or if respiratory tract is irritated, consult a physician.

SKIN CONTACT: Remove contaminated clothing. Flush skin with soap and water.

EYE CONTACT: Flush eyes at least 15 minutes with fresh water. Consult physician if irritation persists.

INGESTION: Effects of ingestion are not known. Seek medical attention immediately and follow instructions given. Never give anything to an unconscious person.

**SECTION 5 – FIRE FIGHTING MEASURES:**

FLAMMABILITY: Non-Combustible Liquid                      FLASH POINT: >100°C  
LOWER EXPLOSIVE LIMIT: N.D.                                      UPPER EXPLOSION LIMIT: N.D.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of Carbon, and Nitrogen

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Water Spray, Foam

SPECIAL FIRE FIGHTING PROCEDURES: Water fog nozzles may be used to cool fire-exposed containers.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES:**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contain the spill and salvage as much material as possible. Pick-up the remaining material with absorbent.

**SECTION 7 – HANDLING AND STORAGE:**

HANDLING: Keep container tightly closed when not in use to prevent leakage or evaporation.  
See product label for additional information.

STORAGE: Store at temperatures above 0° C, in a well-ventilated area. When opening containers, do so slowly to vent slight pressure that may build up after prolonged storage. **Keep out of reach of children.**

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION:**

GENERAL: Keep container tightly closed. Do not consume food, drink, or tobacco in areas where they may become contaminated by this material. Wear goggles or face mask if splashing is likely. Use rubber or plastic gloves to prevent prolonged contact.

EYE PROTECTION: Use safety eye wear where splashing is likely.

SKIN PROTECTION: Use rubber or plastic gloves to minimize physical contact.

RESPIRATORY PROTECTION: None required with normal ventilation.

ENGINEERING CONTROLS: None required under normal use.

OTHER PROTECTIVE MEASURES: None required under normal use.

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:**

<b>BOILING POINT:</b> N.D.	<b>&gt;100 degrees Centigrade</b>	<b>VAPOR DENSITY:</b>	
SOLUBILITY IN WATER:	Completely Emulsifiable	IONIC NATURE:	Non-Ionic
VISCOSITY:	N.D.	VAPOR PRESSURE:	N.D.
EVAPORATION RATE:	Aprox. = Water	FREEZE POINT:	N.D.
SPECIFIC GRAVITY (H2O=1):	1.11 +/- 0.02	SOLIDS BY WEIGHT:	N.D.
VOC	0.5%	LVP :	0.0%

### **SECTION 10 – STABILITY AND REACTIVITY:**

INSTABILITY:	Stable	POLYMERIZATION:	Will not occur.
DECOMPOSITION:	None.		
INCOMPATIBLE MATERIALS:	Strong Oxidizing Agents.		
CONDITIONS TO AVOID:	None known.		

### **SECTION 11 – TOXICOLOGICAL PROPERTIES:**

COMPONENT TOXICOLOGICAL INFORMATION:

<u>CHEMICAL NAME</u>	<u>LD50</u>
Organic Ammonium Salt (Proprietary)	No Information

CARCINOGENICITY INFORMATION:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**SECTION 12 – ECOLOGICAL INFORMATION:**

BOD28:	N.E.
COD:	N.E.
%28-DAY BIODEGRADABILITY: (T.M. OECD 3010)	N.E.
ASRT EC50: (ACTIVATED SLUDGE RESPIRATION INHIBITION TEST, T.M. OECD 209)	N.E.
CERIODAPHNIA 48-H EC50 (T.M. OECD 202)	N.E.
OTHER:	No Information

**SECTION 13 – DISPOSAL CONSIDERATIONS:**

Waste Disposal: Dispose of only by methods approved by and used in accordance with local, state, and federal regulations.

**SECTION 14 – TRANSPORTATION INFORMATION:**

DOT PROPER SHIPPING NAME:	Not regulated under DOT/IMO.		
DOT TECHNICAL NAME:	Not regulated under DOT/IMO		
DOT HAZARD CLASS:	N.A.	HAZARD SUBCLASS:	N.A.
DOT UN/NA NUMBER:	N.A.	PACKING GROUP:	N.A.
RESP. GUIDE PAGE:	N.A.	WHMIS INFORMATION:	N.D.

**SECTION 15 – REGULATORY INFORMATION:**

EEC LABELING: (LABELING FOLLOWING ARTICLE 6 OF DIRECTIVE 92/32/EEC)

NAME OF DANGEROUS PRODUCT: None

WARNING THAT MUST BE INDICATED ON THE LABEL: None

-SYMBOLS: None

-R PHRASE: None

-S PHRASE: None

MEDICAL ADVICE: None

#### **SECTION 16 – OTHER INFORMATION:**

HMIS RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

Personal protection rating to be supplied by user depending on use conditions.

#### PREPARATION INFORMATION:

DATE CREATED: 01/01/2009 LAST REVISION: N.A.

CREATED/REVISED BY: R. Lasnik

LEGEND: N.A. – Not Applicable N.E. – Not Established

N.D. – Not Determined T.M. – Test Method

#### **DISCLAIMER:**

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC. The data and recommendations herein are based upon our research and the research of others, and are believed to be accurate. However, no warranty or guaranty of their accuracy is made; and as the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, including, but not limited to merchantability or fitness for a particular use, is made concerning this product. The user assumes all risk of use or handling whether or not in accordance with any directions or suggestions of the supplier. Seller shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our products, from breach of any warranty or from any other cause, the exclusive remedy against the seller being to require replacement or repair of defective goods.

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