ForceField® Upholstery & Fabric Protector

SAFETY DATA SHEET

SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name: ForceField Upholstery & Fabric
Product Use/Class: Stain & Soil Protectant for Fabric
Date Printed: 10/2/2018
Product ID: F FBP

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 – HAZARD IDENTIFICATION:

Physical hazards:	Flammable liquids and vapour	Category 3
Health hazards:	Aspiration toxicant	Category 1
	Skin irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3
Environmental hazards:	Chronic aquatic toxicant	Category 2
OSHA defined hazards:	Not classified.	

Label elements:

Signal word: Danger

Hazard statement
Flammable liquid and vapour. (H226)
May be fatal if swallowed and enters airways.(H304)
Causes skin irritation. (H315)
May cause drowsiness or dizziness. (H336)
Toxic to aquatic life. (H401)
Toxic to aquatic life with long lasting effects. (H411)

Precautionary statements:

Prevention: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. (P210)
Take Precautionary measures against static discharge. (P243)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Ground/bond container and receiving equipment. (P240)
Use explosion-proof electrical, ventilating, and lighting equipment. (P241)
Use only non-sparking tools. (P242)
Take precautionary measures against static discharge. (P243)
Keep container tightly closed. (P233)
Wear protective glove/protective clothing/eye protection/face protection. (P280)
Use only outdoors or in a well-ventilated area. (P271)
Avoid breathing vapours. (P261)
Was hands and exposed skin thoroughly after handing. (P264)
Avoid release to the environment. (P273)

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. (P301 + P310)
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303 + P361 + P353)
Do NOT induce vomiting. (P331)
If skin irritation occurs: Get medical advice/attention: (P332 + P313)
In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish. (P370 + P378)
Collect spillage. (P391)

Storage: Store locked up in a well-ventilated place. Keep cool.(P405 + P403 + P235)

Disposal: Dispose of contents/container to an approved waste disposal plant. (P501)

Contains: NAPTHA (PETROLEUM), HYDROTREATED HEAVY

Hazard(s) not otherwise classified (HNOC):

PHYSICAL/CHEMICAL HAZARDS: Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited.
HEALTH HAZARDS: Repeated exposure may cause skin dryness or cracking. Irritating to skin. May be irritating to the eyes, nose, throat, and lungs.

Supplemental information: Note: this material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure can cause potential human health risks which may vary from person to person.

SECTION 3 COMPOSITION/INFORMATION ON COMPONENTS

COMPONENTS	CAS NUMBER	%
Naptha (Petroleum), Hydrotreated Heavy	64742-48-9	98 - 99 %
Perfluorinated polymer	Trade Secret*	1 - 2 %

* Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Additional Information: Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below:

None

SECTION 4 FIRST AID MEASURES

Inhalation: Move person to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin contact: If on skin, wash thoroughly with soap and water. If on clothes, remove clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Keep eyes wide open and continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Keep respiratory tract clear. Do NOT induce vomiting. Do NOT give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Most important symptoms/effects, acute and delayed:

May cause drowsiness and dizziness. Aspiration of liquid may cause pulmonary oedema or chemical pneumonitis.

Indication of immediate medical attention and special treatment needed:

If ingested: Immediately call a POISON CETER or doctor/physician. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information:

More affected persons from dangerous area. Do not leave victim unattended. Symptoms of poisoning may only appear several hours later. Ensure that medical personnel are aware of the material(s) involved. Show this safety data sheet to the doctor in attendance.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media:

Alcohol resistant foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Material is combustible. Fire area should be evacuated. Vapours are flammable and heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger. Combustion or thermal decomposition will evolve toxic and irritant vapours. Forms toxic fumes of hydrogen fluoride and carbonyl fluoride, in addition to carbon oxides. Do not allow run-off from fire-fighting to enter drains or water courses.

Special protective equipment and precautions for firefighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and self-contained breathing apparatus (SCBA).

Fire-fighting equipment/instructions:

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up.

Specific methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards:

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Eliminate all ignition sources, heat, hot surfaces (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapours. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Take precautionary measures against static discharge. Ground/bond containers and receiving equipment. Use only non-sparking tools.

Environmental precautions:

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel and authorities of all environmental releases in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or spills that could reach any waterway including any intermittent dry creeks. The National Response Center can be reached at (800) 424-8802.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the containers to a safe and open area if the leak is irreparable. Isolate area until vapours have dispersed. Prevent entry into waterways, sewer, basements or confined areas.

Contain spillages and then collect with sand, earth, diatomaceous earth, vermiculite, or any other suitable adsorbent material. Collect spillage. Transfer to a container for disposal or recovery. Following product recovery, flush area with water. If possible prevent water running into sewers. For waste disposal, see section 13 of the SDS.

Reference to other sections:

See Section 5 for Fire Fighting Measures. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Addition protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Keep away from all ignition sources, heat, hot surfaces (no smoking, flares, sparks, or flames in immediate area). This material is a static accumulator. Ground/bond containers and receiving equipment. Use only non-sparking tools. Provide sufficient air exchange and/or exhaust in work rooms. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Smoking, eating and drinking should be prohibited in the application area. Open drum carefully as contents may be under pressure. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Advice on protection against fire and explosion:

Take precautionary measures against static discharges. Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage, including any incompatibilities:

Store locked up. No smoking. Keep container tightly closed in a dry and well-ventilated place. Keep cool. Store at temperatures not exceeding 50 °C (122 °F). Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations/working materials must comply with the technological safety standards. Avoid storing in the presence of oxidizing agents or water.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

US. ACGIH Threshold Limit Values

Components	CAS	Type	Value
Iso-alkanes (C9-C11)	68551-16-6	TWA	100 ppm
Alkanes and cycloalkanes (C5-C8)		TLV	1500 mg/m3
Alkanes and cycloalkanes (C9-C15)		TLV	1200 mg/m3

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Explosion proof ventilation equipment is recommended. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Wear safety glasses with side shields (or goggles). Eye wash bottle with pure water.

Hand protection:

Wear appropriate chemical resistant gloves (Butyl rubber, Neoprene, or Natural rubber). Check with protective equipment manufacturer's data.

Skin protection/Other:

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection:

Not normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

Thermal hazards:

Not normally required.

General hygiene considerations:

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Physical state:	Liquid
Form:	Liquid
Color:	**C**lear to slightly hazy. Almost colorless to pale yellow
Odor:	Characteristic, Mild, Hydrocarbon
Odor threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range	166 °C – 176°C estimated
Flash point:	113 °F (45 °C) Method: Tag closed cup
Evaporation rate:	0.1 (n-butyl acetate = 1)
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	
Flammability limit – lower (%):	Not available.
Flammability limit – upper (%):	Not available.
Explosive limit - lower (%):	0.7 v/v (Isoparaffic hydrocarbons)
Explosive limit - upper (%):	5.6 v/v (Isoparaffic hydrocarbons)
Vapor pressure:	6.18 mm Hg @100 °F estimated
Relative Vapor density:	4.5 (Air = 1.0)
Relative density:	0.75 +/- 0.04 @ 60.1 °F
Solubility (water):	Negligible
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	653 °F (345 °C) estimated
Decomposition temperature:	Not available.
Viscosity (kinematic cSt @ 40 °C):	1.21 +/- 0.1
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Other information:	
Evaporation rate:	1
Percent volatile:	>99 %

SECTION 10 STABILITY AND REACTIVITY

Reactivity:

The product is stable and non-reactive under normal ambient conditions of use, storage and transport.

Chemical stability:

Material is stable under normal conditions.

Possibility of hazardous reactions:

Hazardous polymerization is not anticipated to occur.

Conditions to avoid:

Avoid contact with heat, flame, ignition sources and incompatible materials.

Incompatible materials:

Strong oxidizing agents and water.

Hazardous decomposition products:

At temperatures over 200 C, or under fire conditions, toxic decomposition products may form.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact: May causes skin irritation and/or dermatitis.

Eye contact: Vapors may **c**ause irritation to the eyes

Symptoms related to the physical, chemical and toxicological characteristics:

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and/or degreasing of skin.

Information on toxicological effects:

Acute toxicity: May be fatal if swallowed and enters airways.

Components	CAS#	Test	Species	Test Results
Naptha (Petroleum), Hydrotreated Heavy	64742-48-9	Acute Oral LD50	Rat	> 5000 mg/kg
		Acute Dermal LD50	Rabbit	> 2000 mg/kg

Skin corrosion/irritation: Causes skin irritation and/or dermatitis.

Serious eye damage/eye irritation: Vapours may cause eye irritation.

Respiratory or skin sensitization:

Respiratory sensitization: Vapours may cause irritation.

Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is unlikely to present a carcinogenic hazard to man.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Repeated dose toxicity: Not anticipated.

Specific target organ toxicity - single exposure: Not expected to cause organ damage from a single exposure.

Reproductive toxicity: Not expected to be a reproductive toxicant.

Aspiration hazard: May be fatal if swallowed and enters airways. Based on physicochemical properties of this material.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Acute Toxicity:

Components/CAS	Test	Species	Test Results
Naptha (Petroleum), Hydrotreated Heavy 64742-48-9	Aquatic Fish LC50	Fathead minnow	8.2 mg/l, 96 hr.
	Aquatic Crustacea EL50	Water flea (Daphnia magna)	4.5 mg/l, 48 hr.

Long Term Toxicity:

Components/CAS	Test	Species	Test Results
Isoparaffinic Hydrocarbon/ 64742-48-9	NOELR	Water flea (Daphnia magna)	2.6 mg/l, 21 days
	NOELR	Pseudokirchnerella subcapitata	0.5 mg/l, 72 hr.

Persistence and degradability:

According to OECD criteria the substance is not readily biodegradable but inherently biodegradable.

Hydrolysis: Transformation due to hydrolysis is not expected to be significant.

Photolysis: Transformation due to photolysis is not expected to be significant.

Atmospheric Oxidation: Expected to degrade rapidly in air.

Bioaccumulative potential:

No data available.

Mobility in soil:

Material is highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Results of PBT and vPvB assessment:

Not classified as PBT or vPvB.

Other adverse effects:

None known.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment/disposal instructions:

This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Waste from residues / unused products:

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with local regulations.

Contaminated packaging:

Exercise caution as empty containers or liners may retain some product residues. Do not re-use empty containers. Do not burn, or use a cutting torch on, empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 TRANSPORT INFORMATION

DOT

UN number: NA1993
UN proper shipping name: Combustible liquid, n.o.s. *
Transport hazard class(es):
Class: Combustible Liquid
Subsidiary risk: -
Label(s): Combustible Liquid
Packing group: III
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Environmental hazards:
Marine pollutant: Yes
Special provisions: None Assigned
Packaging exceptions:
Packaging non bulk: *
Reclassified as a “combustible liquid” according to 49 CFR 173.120 (b)(2). Not regulated for ground shipment in the U.S. in non-bulk packaging (<119 gallons).
Packaging bulk:
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

IATA

UN number: UN1268
UN proper shipping name: Petroleum Distillates, n.o.s.
Transport hazard class(es):
Class 3
Subsidiary risk -
Label(s) Flammable liquid
Packing group III
Environmental hazards:
Marine pollutant: Yes
ERG Code 10L
Special precautions for user:
Read safety instructions, SDS and emergency procedures before handling. Read Safety instructions, SDS and emergency procedures before handling.

Packaging bulk:
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

IMDG

UN number: UN1268
UN proper shipping name: Petroleum Distillates, n.o.s.
Transport hazard class(es):
Class: 3
Subsidiary risk: -
Label(s): Flammable Liquid
Packing group: III

Environmental hazards:

Marine pollutant: Yes

Special precautions for user:

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging bulk:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable

SECTION 15 REGULATORY INFORMATION

US federal regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or polymer exempt.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):

Perfluorinated polymer subject to export reporting.

CERCLA Hazardous Substance List (40 CFR 302.4)

No Listed materials.

SARA 311/312 – Superfund Amendments and Reauthorization Act of 1986:

Hazard categories:

Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	Yes
Aspiration Hazard	Yes

SARA 313 – Toxic Chemicals (40 CFR 372):

No Listed materials.

SARA 302 Threshold Planning Quantity:

Not regulated.

Other federal regulations:

Clean Air Act (CAA) Ozone-Depletion Potential:

This product neither contains, nor was manufactured with a Class I, or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

US state regulations

California Proposition 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive effects.

Minnesota Right to Know:

Naptha (Petroleum) Hydrated Heavy CAS# 64742-48-9

New Jersey Right to Know:

Naptha (Petroleum) Hydrated Heavy CAS# 64742-48-9

Pennsylvania Right to Know:

Naptha (Petroleum) Hydrated Heavy CAS# 64742-48-9

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

- A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16 OTHER INFORMATION

NFPA RATING: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

PREPARATION INFORMATION:
DATE CREATED: 03/18/2011 LAST REVISION: 09/10/2018
CREATED/REVISED BY: R. Lasnik

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

End of SDS