
Product Description

FS-4565, FS-4565B & FS-4567B
"OZONE FRIENDLY"

FS-4565, FS-4565B & FS-4567B are "Ozone Friendly" (contain no OZONE DEPLETING CHEMICALS [ODC's]), solvent based fabric protectors. They are specifically designed for spray type operations. Formulated properly, for end use, in Odorless Mineral Spirits(OMS) or other aromatic or aliphatic (ODC free) solvents, makes these products extremely unique and desirable in the marketplace..

These products, like other polymers, when formulated with petroleum distillates achieve maximum water and oil repellency in about 72 hours (they dry to the touch and are useable in about one to four hours). These products will impart excellent water and oil repellency (beading effect) to virtually all fabrics, and carpeting. (see performance graphs).

FS-4565, FS-4565B, and FS-4567B can be formulated with 1,1,1 Trichloroethane, chlorinated solvents, fluorochlorinated solvents, Ketones, Isoparaffins, or any combinations thereof, as well. If these products are formulated and then aerosolized the following suggested guidelines exist:

- 1) Do not pressurize cans beyond 40 PSI.
- 2) Housing of cans, spray tips, etc. must be resistant to the solvents used.
- 3) Do not use a solvent that has less than 7 carbons.
- 4) Micron size of spray droplet must be greater than 30 microns.
- 5) Full system and product must be evaluated for any potential health and/or safety hazards. Use of formulated product should be only with plenty of ventilation and/or respiratory protection capable of keeping vapors below TLV.

Consult Material Safety Data Sheets before using FS-4565, FS-4565B and FS-4567B

MATERIAL SAFETY DATA SHEET

IDENTITY: FS-4565B™ soil and stain repellent-textile (polymeric solution).

SECTION 1:

Fiber-Shield Industries, Inc.
 85V South Hoffman Lane
 Islandia, NY 11722
 Tel: (516) 348-2585 * Fax:: (516) 348-1110
 Date Prepared: 9/4/95

SECTION 2: **Hazardous Components / Identity Information**

Hazardous Components	OSHA PEL	ACGIH TLV	TWA	PERCENT
Odorless Mineral Spirits CAS# 8052-41-3	500ppm	100ppm	100ppm 525mg/m ³	50 - 85
N-HEPTANE CAS# 142-82-5	500ppm 2000mg/m ³		400ppm 1640mg/m ³	0 - 5
Ethyl Acetate CAS# 141-78-6	400ppm 1400mg/m ³		400ppm 1400mg/m ³	0 - 5
Butyl Acetate CAS# 123-86-4	150ppm	150ppm		0 - 5

Ingredients subject to reporting requirements of SARA 313 and 40 CFR 372. NONE

SECTION 3: **Physical and Chemical Characteristics**

Boiling Point (deg. F): = N/D
Vapor Pressure at 68° F: N/A
Volatile by volume => 80%
Solubility in H₂O: Insoluble

Specific Gravity (H₂O = 1): ~ 0.80
Vapor density (air=1) =>1
Evaporation rate (Ether=1) = N/A

Appearance and odor: Amber transparent liquid, sweet odor.SECTION 4: **Fire and Explosion Hazard Data**

Flash Point (method used): Est. >100 F. Combustible liquid.
Flammable Limits: ND : LEL ND : UEL
Extinguishing Media: Water, CO₂, Dry Chemical, Foam
 NA = Not Applicable N/A = Not Available ND = Not Determined

Special Fire Fighting Procedures: A self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire and Explosion Hazard: Toxic by-products including traces of HF may be formed. Vapors are heavier than air and can travel to ignition points such as pilot lights.

SECTION 5: **Reactivity Data**

Stability: FS-4565B™ is stable.

Conditions to Avoid: Open flames, hot glowing surfaces, sparks, electric arcs, and pressurized equipment that contains aluminum or zinc (galvanized) parts.

Incompatibility (materials to avoid): Avoid mixing with caustic soda, caustic potash, or oxidizing materials.

Hazardous Decomposition or By-Products: Thermal decomposition may produce toxic material including HF.

Hazardous Polymerization: Will not occur.

SECTION 6: **Health Hazard Data**

Routes of Entry:

Inhalation - yes

Dermal - yes

Ingestion - yes

Health Hazard (acute and chronic):

EYES: FS-4565B™ is mildly irritating ocularly. Direct contact with the solution may cause slight iridal and conjunctival irritation. No permanent damage is expected.

SKIN: Slightly irritating upon direct contact.

INHALATION:

Inhalation can cause dizziness, weakness, fatigue, nausea, irritation of the respiratory system or asphyxiation. Chronic gross over-exposure can cause impairment of the nervous system.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea and/or other toxicological damage to organs and tissues.

CARCINOGENICITY:

NTP ? NO

IARC MONOGRAPH ? NO

OSHA REGULATED ? NO

SECTION 7: **Emergency and First Aid Procedures:**

EYES: Flush immediately with clean, free-flowing water for 15 minutes. Consult a physician if irritation persists.

SKIN: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. Give artificial respiration (including oxygen) if necessary. Provide medical attention.

INGESTION: Give a quart or more of water to drink. DO NOT induce vomiting. Never administer liquids by mouth to unconscious persons. Provide medical attention.

SECTION 8: Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE FS-4565B™ IS RELEASED OR SPILLED:

Observe precautions from other sections. Collect any spills with absorbent material such as vermiculite. Place collected material in a polyethylene lined metal container and seal. Clean up residue with water.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, State and Local regulations. (May be incinerated in accordance with FEDERAL, STATE, AND LOCAL REGULATIONS.)

OTHER PRECAUTIONS:

- * Wash hands with soap and water before handling tobacco, liquids, or foodstuffs.
- * Avoid contact with eyes.
- * Avoid prolonged and repeated skin contact.
- * Avoid breathing vapors. Use with adequate ventilation.
- * For Industrial / Professional Use Only.
- * Store in a cool dark place
- * Keep away from heat, flames, or sparks.

SECTION 9: Control Measures

Respiratory Protection: None required if ventilation is adequate to keep below TLV.

VENTILATION:

LOCAL EXHAUST: Recommended to keep air contaminant concentration below the OSHA's PEL and TLC.

MECHANICAL EXHAUST: General ventilation system should be provided.

PROTECTIVE GLOVES: Neoprene rubber gloves.

EYE PROTECTION: Safety goggles.

OTHER PROTECTIVE EQUIPMENT: Eyewash equipment. Apron, coveralls, boots as necessary to prevent skin contact. Safety shower.

WORK / HYGIENIC PRACTICES: Wash hands thoroughly before handling foodstuffs, liquids, or tobacco products.

OTHER HEALTH HAZARDS:

If TLV of any component of the product is exceeded, a NIOSH / MSHA jointly approved respirator must be supplied to personnel. Respiratory protection programs must be in accordance with 29CFR 1910.134.

IMPORTANT NOTICE

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NOTICE

Keep containers tightly closed. Keep containers cool, dry, and away from sources of ignition, use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks or other sources of ignition. "Empty" drums should be completely drained, properly bunged and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.