



## ForceField® Pet SpotBlaster With Enzymes

# SAFETY DATA SHEET

### SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name: Pet SpotBlaster With Enzymes	Date Printed: 10/7/2021
Product Use/Class: Proprietary Stain & Odor Neutralizer	Product ID: F STAIN
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

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### SECTION 2 – HAZARD IDENTIFICATION:

<b>Physical hazards:</b>	Not applicable	-----
<b>Health hazards:</b>	Eye irritation	Category 2
	Skin irritation	Category 3

**Environmental hazards:** No data available.  
**OSHA defined hazards:** Not classified.



**Label elements:**

**Signal word:** WARNING

**Hazard statement** Causes serious eye irritation. (H319)

**Precautionary statements:**

**Prevention:** Wear protective gloves/protective clothing/eye protection/face protection. (P280)  
Wash hands and exposed skin thoroughly after handling. (P264)  
Avoid breathing vapours. (P261)

**Response:** IF SWALLOWED: Get medical advice/attention. DO NOT Induce vomiting. (P301 + P313 + P331)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
(P305 + P351 + P338)

**Storage:** Keep out of reach of children. (P102)

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

**Hazard(s) not otherwise classified (HNOC):** None.

**Supplemental information:** None.

### SECTION 3 COMPOSITION/INFORMATION ON COMPONENTS

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Water	7732-18-5	80 - 90 %
Active Enzymes	N/A (Mixture)	4 -10 %
Styrene Maleic Anhydride Polymer Sodium Salt	52500-92-2	1 - 5 %
Coco Amido Betaine	61789-40-0	0.5 - 1.5 %
Diethylene Glycol Monobutyl Ether	112-34-5	1 - 5 %
Alcohols C10-16, Ethoxylated Sulfosuccinates, Disodium Salts	68815-56-5	0.5 – 1.5 %
Zinc Ricinoleate	13040-19-2	< 0.5 %
Alcohols, C12-C16, Ethoxylated	68551-12-2	< 0.5 %
Sodium Sulfate	7757-82-6	1 - 3 %
Sodium Metabisulfite	7681-57-4	0.5 – 1.5 %
Tetrahydroxypropylethylene Diamine	102-60-3	< 2 %
Ethylenediaminetetracetic acid, sodium salt	64-02-8	< 1 %
Butanedioic acid, sulfo-monosodium salt	20526-58-3	< 1 %
2-Butenedioic acid (2Z)-, sodium salt (1:1)	3105-55-3	< 1 %
Propylene glycol	57-55-6	< 1 %
Ethoxylated alcohols	61827-42-7	< 1 %
Triethylene glycol monododecyl ether	3055-94-5	< 1 %
Diammonium EDTA	20824-56-0	< 1 %
Fragrance Compound	N/A (Mixture)	< 0.25 %

\* 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 persons affected by vapor to fresh air. If breathing is labored, administer

- oxygen. If symptoms develop, get medical attention
- Skin contact:** If on skin, wash thoroughly with soap and water. If on clothes, remove clothing. Get medical attention if irritation develops and persists.
- 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:** Never give anything by mouth to an unconscious person. Seek medical attention immediately. DO NOT induce vomiting.

**Most important symptoms/effects, acute and delayed:**

Causes serious eye irritation.

**Indication of immediate medical attention and special treatment needed:**

If ingested: Immediately call a POISON CENTER 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. Ensure that medical personnel are aware of the material(s) involved. Show this safety data sheet to the doctor in attendance.

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**SECTION 5 FIRE FIGHTING MEASURES**

**Suitable extinguishing media:**

Non-combustible. Use media appropriate for surrounding fire.

**Unsuitable extinguishing media:**

None anticipated.

**Specific hazards arising from the chemical:**

Combustion or thermal decomposition will evolve toxic and/or irritant vapours. Forms fumes of oxides of carbon, nitrogen, sulfur, and zinc.

**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:**

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:**

None known.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid contact with skin and eyes. Do not breathe vapours/mist/spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

**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 of all environmental releases.

**Methods and materials for containment and cleaning up:**

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.

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**SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling:**

Avoid contact with skin and eyes. Do not breathe vapours/mist/spray. Wear appropriate personal protective equipment. Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Advice on protection against fire and explosion:**

None – Product is non-combustible

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place. Keep cool. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Protect from sunlight. Avoid storing in the presence of oxidizing or reducing agents.

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure limits:**

**US. ACGIH Threshold Limit Values**

<u>Components</u>	<u>CAS</u>	<u>Type</u>	<u>Value</u>
No exposure limits known for any acomponents.			

**Appropriate engineering controls:**

Not normally required.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:**

Wear safety glasses with side shields (or goggles).

**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.

**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.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Emulsion
<b>Color:</b>	Pale amber turbid emulsion
<b>Odor:</b>	Characteristic, Mild, Fresh
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	7.0 +/- 0.5
<b>Melting point/freezing point:</b>	< 0 °C
<b>Initial boiling point and boiling range</b>	100 °C estimated
<b>Flash point:</b>	> 93 °C
<b>Evaporation rate:</b>	Aprox. 1 (water = 1)
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Vapor pressure (Pascal)</b>	Not applicable.
<b>Relative Vapor density:</b>	> air (air = 1)
<b>Relative density:</b>	1.03 +/- 0.02
<b>Solubility (water):</b>	Completely emulsifiable.
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity (kinematic cSt @ 40 °C):</b>	Not available.
<b>Explosive properties:</b>	Not explosive.
<b>Oxidizing Properties:</b>	Not oxidizing.
<b>Other information:</b>	Not available.

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**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:**

None anticipated.

**Conditions to avoid:**

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

**Incompatible materials:**

Strong oxidizing agents or reducing agents.

**Hazardous decomposition products:**

At temperatures over 200 C, or under fire conditions, thermal decomposition will evolve toxic and irritant vapors. Forms oxides of carbon, nitrogen, sulfur, and zinc.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure:**

**Inhalation:** May cause mild irritation to respiratory tract.

**Skin contact:** May cause mild skin irritation and/or dermatitis.

**Eye contact:** Causes serious eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:**

May cause 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:**

<b>Components</b>	<b>CAS#</b>	<b>Test</b>	<b>Species</b>	<b>Test Results</b>
Styrene Maleic Anhydride Polymer Sodium Salt	52500-92-2	Acute Oral ALD Acute Inhalation ALC	Rat Rabbit	>11000 mg/kg >1300 mg/kg
Coco Amido Betaine	61789-40-0	Acute Oral LD50 Acute Dermal LD50	Rat Rat	1800 – >5000 mg/kg >2000 mg/kg
Ethylenediaminetetracetic acid, sodium salt	64-02-8	Acute Oral LD50	Rat	630 – 1,260 mg/kg
Alcohols, C12-C16 ethoxylated	68551-12-2	Acute Oral LD50 Acute Dermal LD50	Rat Rabbit	5000 mg/kg >2000 mg/kg
Propylene Glycol	57-55-6	Acute Oral LD50	Rat	20000 mg/kg
Ethoxylated alcohols	61827-42-7	Acute Oral LD50	Rat	>2000 mg/kg

**Skin corrosion/irritation:**

Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitis.

**Sensitization:**

Not likely to be a skin sensitizer.

**Serious eye damage/eye irritation:**

This product causes serious eye irritation.

**Respiratory or skin sensitization:**

<b>Respiratory sensitization:</b>	Vapours may cause mild irritation.
<b>Skin sensitization:</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity:</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity:</b>	Probably not carcinogenic to humans.
<b>Developmental Toxicity:</b>	Not available
<b>Toxicity for reproduction:</b>	Not available
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):</b>	Not listed.
<b>Repeated dose toxicity:</b>	No data available.
<b>Specific target organ toxicity - single exposure:</b>	No data.
<b>Teratogenicity:</b>	No data.
<b>Aspiration hazard:</b>	No data.

## SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No data for this product. However, based upon component data, this product would not be expected to be toxic to aquatic life or produce long lasting effects.

### Acute Toxicity:

<b>Components/CAS</b>	<b>Test</b>	<b>Species</b>	<b>Test Results</b>
Coco Amido Betaine 61789-40-0	Aquatic Fish LC50	-----	6.7 mg/l, 96 hr.
	Aquatic Crustacea EC50 ErC50	Water flea (Daphnia magna) Algae	3.7 – 21.5 mg/l, 48 hr. 48 mg/l, 96 hr.
Propylene glycol 57-55-6	Aquatic Fish NOEC	Fathead Minnow	52930 mg/l, 96 hr.
	Aquatic Crustacea NOEC	Water flea (Daphnia magna)	13020 mg/l, 48 hr.

### Acute Toxicity: (Continued)

<b>Components/CAS</b>	<b>Test</b>	<b>Species</b>	<b>Test Results</b>
Butanedioic acid Sulfo-monosodium salt 20526-58-3	Aquatic Fish LC50	Mosquito fish (Gambusia affinis)	80 mg/l, 96 hr.
Tetrasodium EDTA 64-02-8	Freshwater Algae EC50	Desmodesmus subspicatus	1.01 mg/l, 72 hr.
	Freshwater Fish LC50	Pimephales promelas	59.8 mg/l, 96 hr.
	Aquatic Crustacea EC50	Water flea (Daphnia magna)	610 mg/l, 24 hr.

Alcohols, C12-C16 ethoxylated 68551-12-2	Aquatic Fish LC50 Aquatic Crustacea EC50 ErC50	----- Water flea (Daphnia magna) Algae	0.7 - <3.0 mg/l, 96 hr. 0.7 - <3.0 mg/l, 48 hr. > 0.4 - 100 mg/l, 72 hr.
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**Long Term Toxicity:**

No data available.

**Persistence and degradability:**

Readily biodegradable.

**Bioaccumulative potential:**

No data available.

**Mobility in soil:**

No data available.

**Results of PBT and vPvB assessment:**

No data available.

**Other adverse effects:**

None known.

**Long Term Toxicity:**

No data available.

**Persistence and degradability:**

Readily biodegradable.

**Bioaccumulative potential:**

No data available.

**Mobility in soil:**

No data available.

**Results of PBT and vPvB assessment:**

No data available.

**Other adverse effects:**

None known.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

**Waste treatment/disposal instructions:**

Disposal should be in accordance with local, state, or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**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:** Not applicable  
**UN proper shipping name:** Cleaning compounds N.O.S.  
**Transport hazard class(es):**  
**Class:** Not applicable  
**Subsidiary risk:** -  
**Label(s):** Not applicable  
**Packing group:** Not applicable  
**Special precautions for user:**  
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.  
**Environmental hazards:** No  
**Special provisions:** None Assigned  
**Packaging exceptions:**  
None – Not classified as dangerous for transportation  
**Packaging bulk:**  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:  
Not applicable

### IATA

**UN number:** Not applicable  
**UN proper shipping name:** Cleaning compounds N.O.S.  
**Transport hazard class(es):**  
**Class** Not applicable  
**Subsidiary risk** -  
**Label(s)** Not applicable  
**Packing group** Not applicable  
**Environmental hazards** No  
**ERG Code** Not applicable  
**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:** Not applicable  
**UN proper shipping name:** Cleaning compounds, n.o.s.  
**Transport hazard class(es):**  
**Class:** Not applicable  
**Subsidiary risk:** -  
**Label(s):** Not applicable  
**Packing group:** Not applicable  
**Environmental hazards:**  
**Marine pollutant:** No  
**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 not 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.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Zinc compounds CAS#: Not available Typical %/wt: 0.3 RQ: None assigned

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

Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	No
Reactivity Hazard	No

**SARA 313 – Toxic Chemicals (40 CFR 372):**

Zinc compounds CAS#: Not available Typical %/wt: 0.3 RQ: None assigned

**SARA 302 Extremely Hazardous Substances - Threshold Planning Quantity:**

None.

**US state regulations****U.S. California Proposition 65:**

<b>Chemical Name</b>	<b>CAS#</b>	<b>Typical % by Wt</b>	<b>Hazard</b>
Ethylene oxide	75-21-8	Trace to none	Cancer, Developmental
Butylated hydroxyanisole	25013-16-5	Trace to None	Cancer
Acetaldehyde	75-07-0	Trace to None	Cancer
1,4-Dioxane	123-91-1	Trace to None	Cancer
Ethlene Glycol	107-21-1	Trace to None	Developmental

**Pennsylvania Right To Know:**

<b>Chemical Name</b>	<b>CAS#</b>	<b>Typical % by Wt</b>	<b>Hazard</b>
2-Butenedioic acid (2Z)-, sodium salt (1:1)	3105-55-3	< 1 %	

**New Jersey Right To Know:**

<b>Chemical Name</b>	<b>CAS#</b>	<b>Typical % by Wt</b>	<b>Hazard</b>
2-Butenedioic acid (2Z)-, sodium salt (1:1)	3105-55-3	< 1 %	

**SECTION 16 OTHER INFORMATION**

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

**PREPARATION INFORMATION:**

DATE CREATED: 06/17/21 LAST REVISION: N.A.  
 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,

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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**