



ForceField® OdorBlaster Bio-Enzymatic Odor Treatment

SAFETY DATA SHEET

SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name: ForceField Odor Blaster Bio-Enzymatic Odor Treatment Date Printed: 10/19/2018
Product Use/Class: Water Based Deodorizing Solution Product ID: F OBE

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:	Not applicable	-----
Health hazards:	Not applicable	-----
	Skin irritation	Category 3
	Specific target organ toxicity, single exposure	Category 3

Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements: None required

Signal word: None required

Hazard statement Causes eye irritation. (H320)

Precautionary statements:

Prevention:	Wear protective gloves/protective clothing/eye protection/face protection. (P280) Wash hands and exposed skin thoroughly after handling. (P264)
Response:	IF SWALLOWED: Get medical advice/attention. (P301 + P313) 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	90 - 96 %
Proprietary Bacterial Enzymatic Suspension	Trade Secret*	4 - 6 %
Proprietary Odor Neutralizer Admixture	Trade Secret*	2 - 3 %
Fragrance Compound	N/A (Mixture)	< 1 %

* 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 systems persist, contact a POISON CENTER or doctor/physician..

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: Effects of ingestion are unknown. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately and follow instructions given.

Most important symptoms/effects, acute and delayed:

May cause eye irritation. May cause an allergic skin reaction/irritation in sensitive individuals.

Indication of immediate medical attention and special treatment needed:

If ingested: DO NOT induce vomiting. Immediately seek medical attention.

Provide general supportive measures and treat symptomatically. Keep victim under observation.

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.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing media:

Non-combustible. Use media appropriate for surrounding fire.

Unsuitable extinguishing media:

None known.

Specific hazards arising from the chemical:

Thermal decomposition may evolve toxic and/or irritant vapours. Forms fumes of oxides of carbon, nitrogen, and zinc.

Special protective equipment and precautions for firefighters:

None known. Use personal protective equipment appropriate for surrounding fire.

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.

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. Do not breathe vapours. 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.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. 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. When opening containers, do so slowly to vent slight pressure that may build up after prolonged storage.

Advice on protection against fire and explosion:

None – Product is non-combustible

Conditions for safe storage, including any incompatibilities:

Avoid contact with strong oxidizing agents. Keep out of reach of children. Keep container tightly closed in a dry and well-ventilated place. Keep cool. Do not store in temperatures above 50° C. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

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>
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No data available.

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) where splashing is likely.

Hand protection:

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

Skin protection/Other:

Not normally required.

Respiratory protection:

Not normally required.

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:

Clear to slightly hazy.

Odor:

Characteristic, Mild, Fruity

Odor threshold:

Not available.

pH:

6.0 – 6.4

Melting point/freezing point:	Not available.
Initial boiling point and boiling range	> 100 °C estimated
Flash point:	Non-combustible
Evaporation rate:	Aprox 1 (water = 1)
Flammability (solid, gas):	Not applicable.
Upper/lower flammability or explosive limits:	
Flammability limit – lower (%):	Not available.
Flammability limit – upper (%):	Not available.
Explosive limit - lower (%):	Not available.
Explosive limit - upper (%):	Not available.
Vapor pressure:	Not available.
Relative Vapor density:	Not available.
Relative density:	1.06 +/- 0.02
Solubility (water):	Soluble
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not available.
Viscosity (kinematic cSt @ 40 °C):	Not available.
Explosive properties:	Not explosive.
Oxidizing properties:	Not oxidizing.
Other information:	
VOC:	0.01 %
LVP:	0.00 %

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 heat, ignition sources, and incompatible materials.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

At temperatures over 200 C, or under fire conditions, thermal decomposition may evolve toxic and/or irritant vapours. Forms: oxides of carbon, nitrogen, and zinc.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: May cause mild irritation to respiratory tract.

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

Eye contact: Vapors may cause irritation to the eyes

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:

Components	CAS#	Test	Species	Test Results
Proprietary Odor	None Assigned	Oral LD50	Rat	>5,000 mg/kg
Neutralizer Admixture		Dermal LD50	Rat	>2,000 mg/kg

No data available to indicate that any components present are acutely toxic.

Skin corrosion/irritation: May cause 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: Probably not carcinogenic to humans.

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

Repeated dose toxicity:
 No data.

Specific target organ toxicity - single exposure:
 No data.

Teratogenicity:
 No data.

Aspiration hazard:
 No data.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Acute Toxicity:

Components/CAS	Test	Species	Test Results
Proprietary Odor	Aquatic Fish LC50	Rainbow trout	> 100 mg/l, 96 hr.
Neutralizer Admixture/ None Assigned	Aquatic Crustacea LC50 ErC50	Daphnia magna Algae	>100 mg/l, 48 hr. >100 mg/l, 72 hr.

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:

Proprietary odor neutralizer admixture: No data available.

Fragrance compound: No data available.

Other adverse effects:

None known.

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. Dispose of in accordance with federal, state, and 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. Dispose of empty containers in accordance with federal, state, and local regulations.

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.

TSCA Section 5 SNUR: (40 CFR 721.10536.

No Listed materials.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc compounds CAS#: None assigned Approx. 0.2% wt./wt. RQ: None assigned

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

Hazard categories:

Immediate Hazard No
Delayed Hazard No
Fire Hazard No

Reactivity No

SARA 313 – Toxic Chemicals (40 CFR 372):

Zinc compounds CAS#: None assigned Approx. 0.2% wt./wt.

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

U.S. California Proposition 65:

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

SECTION 16 OTHER INFORMATION

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

PREPARATION INFORMATION:

DATE CREATED: 01/01/06 LAST REVISION: 10/19/2018

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