

**Diamond Shield Fortifier (DSF)
SAFETY DATA SHEET**



SDS NO. 1
Effective Date: May 20, 2019
Revision Date: May 20, 2019

I. Product and Company Information

SII Product Name(s):	Diamond Shield Fortifier	Synonym:	DSF
Chemical Name:	Proprietary	CAS Number:	Proprietary
Manufacturer's Name: Diamond Shield Fortifier P.O. Box 995 Alexander, AR 72002 Customer Service: 501-602-1401 Web Site www.DiamondShieldFortifier.com		Emergency Contacts: Chemical information: 1-877-602-5062 For Chemical Emergency, Spill or Accident Call CHEMTREC at 1-800-424-9300 CHEMTREC CCN - 20596	

II. Hazard Identification

OSHA HCS / GHS Classification(s):		Hazard Statement(s):	
none		none	
Signal Word:	Precautionary Statement(s):		
Danger	Prevention:	Keep in original container.	
Symbol(s): None		Wear eye / face protection.	
	Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.	
		Absorb spillage to prevent material damage.	
		For specific treatment: See First Aid section IV.	

III. Composition / Information on Ingredients

Chemical Name:	CAS Reg #'s	%
Proprietary	#####	16
Water	7732-18-5	Balance

IV. First Aid Measures

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes. Seek medical attention, if you feel unwell.
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth. Seek medical attention, if you feel unwell.

V. Fire Fighting Measures

NFPA Hazard Rating:	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	1	0	0	None
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme				
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.			
Special Firefighting Procedure:	Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes. CAUTION: when subject to excess heat, product releases additional sulfur dioxide gas.			

VI. Accidental Release Measures

Precaution if Spilled or Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Neutralizing Chemicals:	Neutralize with appropriate alkali such as soda ash or slaked lime.

VII. Handling and Storage

Handling:	Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.
Storage:	Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate SII Product Bulletin for temperature recommendations. Do not store this material near food, animal feed or drinking water. Store in well ventilated area. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Keep container tightly closed when not in use.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:				
Components:	CAS-No.	Value	Parameters	Basis
Diamond Shield Fortifier	#####	TWA	5 mg/m ³	Inorganic soluble salts
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.			
General Hygiene:	Practice good personal hygiene after using this material, especially before eating, drinking, smoking or using the toilet.			
Personal Protection Equipment:				
Eye:	Use chemical splash goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.			
Skin:	Chemically resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.			

Respiratory:	None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator.			
Other Protective Items:	Where splash is possible, full chemically resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work-station location.			
HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	1	0	0	See PPE
Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe				

IX. Physical and Chemical Properties

Physical State:	Liquid	pH:	3-3.5
Appearance:	Blue	Molecular Weight:	Not Applicable
Odor:	No Odor	Odor Threshold:	Data Not Available
Specific Gravity:(H₂O=1)	1.29 to 1.34 @77°F /25°C	Weight per Gallon:	11.1 lbs. @77°F /25°C
Vapor Density: (Air=1)	Similar to Water	Vapor Pressure:	Similar to Water
Boiling Point:	214°F/101°C Estimated	Freezing/Melting Point:	4°F/-16°C
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable
Solubility in water:	Soluble	:	
Other:			

X. Stability and Reactivity Data

Chemical Stability:	Product is stable under normal or expected use.
Conditions To Avoid:	Avoid exposure to excessive heat.
Incompatible Materials:	Avoid contact with the following: acids and oxidizing agents.
Hazardous Products of Decomposition:	Thermal decomposition may yield the following: toxic oxides of sulfur.

XI. Toxicological Information

Routes of Entry:	<input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation			
Sign and symptoms of Exposure:	May cause irritation to eyes, skin and respiratory passages Eye			
Contact:	Can cause eye damage			
Ingestion:	May be harmful if swallowed.			
Skin Contact:	May cause irritation.			
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.			
Carcinogenicity:	NPT	Not Listed	IARC	Not Listed
			OSHA	Not Regulated
Ingredient Name:	Species	Test	Route	Results
Aluminum Sulfate	Rat	>5000 mg/kg	oral	LD50
Comments:				

XII. Ecological Information

Ingredient Name:	Species	Test	Period	Results
Active Proprietary component	Mosquitofish	235 ppm	96 hours	LC50
Comments:				

XIII. Disposal Considerations

Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.
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XIV. Transportation Information

Proper Shipping Name:	Not regulated			
DOT Classification:	-			
Identification Number:	-	Packing Group:	-	Other Labels: Non-Hazardous

XV. Regulatory Information

Inventory Status:		US Regulations:		
U. S. TSCA	Yes	SARA 302 TPQ	Not Listed	
Europe EINECS	Yes	SARA 304 RQ	Not Listed	
Canadian DSL	Yes	SARA 313 List	Not Listed	
Japan ENCS	Yes	CERCLA (RQ)	5,000 lbs.	
Korean TCCL	Yes	RCRA 261.33	Not Listed	
Philippines PICCS	Yes	CWA 117	5,000 lbs.	
Australian AICS	Yes	CAA 112r (RMP)	Not Listed	
		SARA 311/312	<input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive	
International Regulations:			Other Regulations:	
Canada WHMIS	D-2B	Toxic material causing other toxic effects	California PROP 65	Not Listed
			FDA GRAS	21 CFR 182.1125
EINECS	233-135-0			

XVI. Other Information

NSF Certification:	
Other:	
Revision Notes:	
MSDS Replacements	<u>replaces MSDS for DSF, transition to new SDS (GHS)</u>