



ForceField® Fine Stone Cleaner & Protector

SAFETY DATA SHEET

SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name:	Fine Stone Cleaner & Protector	Date Printed:	2/16/2017
Product Use/Class:	Stone Cleaner/Aqueous Surfactant Blend.	Product ID:	F FSC
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:	Eye Damage	Category 1
Health hazards:	Acute Toxicity	Not Classified
	Skin sensitization	Category 3
	Eye sensitization	Category 1
	Specific target organ toxicity, single exposure	Not Classified
Environmental hazards:	Not classified.	
OSHA defined hazards:	Not classified.	

Label elements:



Signal word: Danger

Hazard statement Causes serious eye damage. (H318)
Causes mild skin irritation. (H316)
May cause respiratory irritation. (H335)

Precautionary statements:

- Prevention:** Wear protective gloves/protective clothing/eye protection/face protection. (P280)
Do not eat, drink or smoke when using this product. (P270)
Wash hands and exposed skin thoroughly after handling. (P264)
Avoid breathing dust/fume/gas/mist/vapours/spray. (P261)
Contaminated work clothing should not be allowed out of the workplace. (P272)
- Response:** IF SWALLOWED: Rinse mouth. Get medical advice/attention. (P301 + P330 + P313)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. (P305 + P351 + P338 + P310)
Absorb spillage to prevent material damage. (P390)
- Storage:** Keep out of reach of children. (P102)
Store in corrosion resistant containers such as fiberglass, polyethylene, polypropylene or containers with a resistant inner liner. (P406)
- Disposal:** Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national/international regulations. (P501)
- Hazard(s) not otherwise classified (HNOC):** None known.
- Supplemental information:** None.
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SECTION 3 COMPOSITION/INFORMATION ON COMPONENTS

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Water	7732-18-5	92 - 98 %
Isopropanol	67-63-0	1 - 2 %
Silicic acid, disodium salt (1:2)	6834-92-0	1 - 2 %
Nonionic Surfactants	Trade Secret	1 - 2 %
Perfluoroalkyl phosphates, ammonium salts	65530-70-3 65530-72-5	1 - 2 %

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

- Eye contact:** Immediately rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Keep eyes wide open and continue rinsing occasionally lifting upper and lower eyelids. Get immediate medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If Symptoms develop, obtain medical attention.

Skin contact: If on skin, flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. If on clothes, remove clothing. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation (redness, rash, blistering) develops and persists.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Eye Contact: Causes serious eye damage. Adverse symptoms may include the following: pain or irritation, watering redness.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: Causes mild skin irritation. Adverse symptoms may include the following: irritation, redness.

Ingestion: Harmful if swallowed. May be irritating to mouth, throat and stomach.

Indication of immediate medical attention and special treatment needed:

If ingested: Immediately seek medical attention. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information:

Move 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 anticipated.

Specific hazards arising from the chemical:

Combustion or thermal decomposition will evolve toxic and/or irritant vapours.

Special protective equipment and precautions for firefighters:

Firefighters should wear standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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 (See section 8). Do not get in eyes. Avoid skin contact. Avoid walking through spilled material. Do not breathe vapours or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Provide adequate local ventilation and 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 and authorities of all environmental releases.

Methods and materials for containment and cleaning up:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 13 for waste disposal.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling:

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Advice on protection against fire and explosion:

None – Product is non-combustible.

Conditions for safe storage, including any incompatibilities:

Observe label precautions. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed in a dry and well-ventilated place until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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>
Isopropanol	67-63-0	8 Hr. TWA PEL (OSHA)	400 ppm
		8 Hr. TLV (ACGIH)	200 ppm
		STEL PEL (OSHA)	500 ppm
		STEL TLV (ACGIH)	400 ppm

Recommended monitoring method: NIOSH 1400 (Isopropanol)

Appropriate engineering controls:

Not normally required. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Skin protection/Other:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Not normally required. If permissible levels are exceeded use NIOSH mechanical filter /organic vapor cartridge or an air-supplied respirator. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards:

Not normally required.

General hygiene considerations:

Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing and protective equipment to remove contaminants before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Environmental exposure controls:

Avoid release to the environment. Do not allow to enter drains, sewers or waterways.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Physical state: Liquid
Form: Liquid
Color: Clear to Pale Yellow

Odor: Characteristic, Isopropyl Alcohol

Odor threshold: Not available.

pH: 12 - 13 +/-0.5

Melting point/freezing point: Not available.

Initial boiling point and boiling range 212 °F estimated (100 °C)

Flash point: > 200°F estimated (93.3 °C)

Evaporation rate: Not available.

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: 1.00 +/- 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:

Total VOC (% by weight): < 2.0 %

VOC (% of hazardous ingredients): 0 %

Ionic nature: Cationic

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 under normal ambient conditions of use, storage and transport.

Conditions to avoid:

Avoid contact with heat, and incompatible materials.

Incompatible materials:

Reactive or incompatible with the following materials: Acids or acidic solutions.

Hazardous decomposition products:

At temperatures over 200 C, or under fire conditions, thermal decomposition will evolve toxic and irritant vapours.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: May cause skin irritation.

Eye contact: Vapors may cause serious eye damage.

Ingestion: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics:

Vapours 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
Isopropanol	67-63-0	Acute Oral LD50	Rat	5,045 mg/kg
			Mouse	3,600 mg/kg
		Acute Dermal LD50	Rabbit	6,410 mg/kg
			Rabbit	12,800 mg/kg
Silicic acid, disodium salt (1:2)	6834-92-0	Acute Oral LD50	Rat	1,153 mg/kg
		Acute Dermal LD50	Rat	4,640 mg/kg

Skin corrosion/irritation:

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation:

Causes serious eye damage.

Respiratory or skin sensitization:

Respiratory sensitization:

No data available.

Skin sensitization:

No data available.

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 not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Not listed.

Repeated dose toxicity:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Teratogenicity:

No data available.

Aspiration hazard:

No data available.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Based upon component data, may be toxic to aquatic life.

Acute Toxicity:

Components/CAS	Test	Species	Test Results
Isopropanol	Aquatic Fish LC50	Pimephales promelas	10,000 mg/l, 96 hr.
67-63-0	Aquatic Fish LC50	Daphnia magna	10,000 mg/l, 24 hr.

Long Term Toxicity:

No data available.

Persistence and degradability:

Not persistent.

Bioaccumulative potential:

No data available. Not to be expected.

Mobility in soil:

No data available.

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:

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. Not classified as hazardous for transport.
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:	Exempt under DOT 49 CFR 173.154 (d).
Additional Information:	None.
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. Not classified as hazardous for transport.
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.
Additional Information:	None.
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. Not classified as hazardous for transport.
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.

Additional Information:

None.

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)

No Listed materials.

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

Hazard categories:

Immediate Hazard	Yes
Delayed Hazard	No
Fire Hazard	No
Sudden Release	No
Reactivity	No

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

U.S. 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.

SECTION 16 OTHER INFORMATION

PREPARATION INFORMATION:

DATE CREATED: 02/16/17 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, 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