



# Material Safety Data Sheet

**MSDS Date:** 01/08/03  
**Product Name:** SSS Force4 Assault, Tile & Grout Cleaner & Pretreatment, Step 1 of 4  
**Product Number:** 24001

## 1. Products and Company Description

**Distribution Company Name:** Triple S, 2 Executive Park Drive, Billerica, MA, Phone: 800-323-2251  
**Product Class:** Tile & Grout Cleaner & Pretreatment, Step 1 of 4  
**Emergency Phone Number:** 888-779-1339  
**Hazard Rating:** Health: 2      Fire: 1      Reactivity: 0      Personal Protection: B

## 2. Material Identification and Information

<u>Chemical Name</u>	<u>CAS #</u>	<u>Percent By Volume</u>
Butoxyethanol Ethylene Glycol Monobutyl Ether	111-76-2	11 %
Potassium Hydroxide Solution	001-310-583	<5 %
Sodium Metasilicate	6834-92-0	<0.5%
Dodecylbenzene Sulfuric Acid LP	68584-22-5	<0.5%

## 3. Physical Data

**Boiling Point/Range:** 215 °F  
**Vapor Pressure Range (mmHg):** 20mm Hg @ 68° F  
**Solubility In Water** Soluble  
**pH** 12.5 13.5  
**Vapor Density (air =1):** >1  
**Evaporation Rate:** <1  
**Appearance and Color:** Clear / purple liquid with characteristic odor

## 4. Fires and Explosion Hazard Information

**OSHA Flammability Class:** N/A  
**Flash Point:** None to boiling  
**Explosive Range:** N/A  
**Fire Extinguishing Media:** Appropriate to cause of fire.  
**Unusual Fire and Explosion Hazards:** N/A  
**Special Fire Fighting Procedures:** N/A  
**Hazardous Decomposition or Combustion Products:** N/A

## 5. Health Hazard Information



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<b>Routes of entry</b>	Eye, inhalation, and ingestion
<b>Eye Contact:</b>	Severe eye irritant. Liquid and mist may damage eyes causing corneal injury. Flush eyes with large quantities of water, remove contact lenses, and seek medical attention if irritation persists.
<b>Skin Contact:</b>	Severe skin irritant. May cause moderate reddening, swelling and possible skin damage. Flush eyes with large quantities of water, and seek medical attention if irritation persists.
<b>Inhalation:</b>	Vapors may be irritating to mucous membranes in nose, throat, and lungs. Get to fresh air. Seek medical attention if irritation persists.
<b>Ingestion:</b>	Irritating or possibly corrosive to the mouth, throat and gastrointestinal system. May cause headache, dizziness, nausea, or vomiting and diarrhea. Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

## 6. Stability & Reactivity Information

<b>Stability:</b>	This product is stable.
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.
<b>Materials to Avoid:</b>	Strong acids
<b>Conditions to Avoid</b>	None
<b>Hazardous Decomposition Products:</b>	Alkaline vapors in a fire
<b>Other Reactivity Data</b>	None

## 7. Accidental Release Measures

<b>Steps to be taken in Case Material is Release or Spilled:</b>	Mop up or otherwise absorb spill and hold for disposal
<b>Waste Disposal Methods:</b>	Dispose in accordance to federal, state and local regulations
<b>Precautions in Handling &amp; Storage</b>	Keep out of reach of children. Keep container closed during storage. For institutional and commercial use.

## 8. Control and Protective Measures

<b>Respiratory Protection:</b>	Use in well ventilated area
<b>Ventilation:</b>	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
<b>Personal Protective Equipment:</b>	
<b>Protective Gloves:</b>	Neoprene
<b>Eye Protection:</b>	Chemical splash resistance.
<b>Other:</b>	Full length rubber apron and boots.
<b>Hygienic Practices:</b>	Wash clothing before reuse. Wash your hands before eating, smoking, or using washroom.



# Material Safety Data Sheet

**MSDS Date:** 10/08/06  
**Product Name:** SSS Force4 Advance, Grout Restorer & Cleaner, Step 2 of 4  
**Product Number:** 24002

## 1. Products and Company Description

**Distribution Company Name:** Triple S, 2 Executive Park Drive, Billerica, MA, Phone: 800-323-2251  
**Product Class:** Grout Restorer & Cleaner, Step 2 of 4  
**Emergency Phone Number:** 888-779-1339  
**Hazard Rating:** Health: 2      Fire: 1      Reactivity: 0      Personal Protection: B

## 2. Material Identification and Information

<u>Chemical Name</u>	<u>CAS #</u>	<u>Percent By Volume</u>
Proprietary Formula	N/A	

## 3. Physical Data

**Appearance:** Clear  
**Physical State:** Liquid  
**Solubility In Water:** Soluble  
**pH of Concentrate:** 0.7 Typical  
**Odor:** Mild  
**Specific Gravity:** 1.21  
**Boiling Point:** 100°C/212°F

## 4. Fires and Explosion Hazard Information

**OSHA Flammability Class:** N/A  
**Flash Point:** None to boiling  
**Explosive Range:** N/A  
**Fire Extinguishing Media:** Water spray, carbon dioxide, dry chemical  
**Unusual Fire and Explosion Hazards:** At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.  
**Special Fire Fighting Procedures:** Evacuate personnel to a safe area. Keep containers cool with a water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.

## 5. Toxicological Properties

**Routes of entry:** Eye, inhalation, and ingestion



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<b>Eye Contact:</b>	Causes burns to eyes. Flush eyes with large quantities of water, remove contact lenses, and seek medical attention if irritation persists.
<b>Skin Contact:</b>	An acute skin irritant, however non-corrosive to skin as defined and tested in accordance with the US/OSHA Hazard Communication Standard, DOT Hazard Materials Regulations, Canada's HHMIS regulations and TDG Regulations. Classified as mild per the OECD Guidelines for testing chemicals, number 404, "Acute Dermal Irritation and Corrosion."
<b>Inhalation:</b>	Vapors may be irritating to mucous membranes in nose, throat, and lungs. Get to fresh air. Seek medical attention if irritation persists.
<b>Ingestion:</b>	This product may be harmful or fatal if ingested
<b>Carcinogenicity</b>	Not listed on NTP, IARC, or ACGIH

### 6. Stability & Reactivity Information

<b>Stability:</b>	Stable up to 110°C/230°F
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	Heating above 110°C results in an exothermic decomposition with rapid release of CO <sub>2</sub> gas.
<b>Incompatible Materials</b>	Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites, such as chlorine, bleach, sulfides, or cyanides will release toxic gas. Contact with alkaline materials will generate heat.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.
<b>Other Reactivity Data</b>	None

### 7. Accidental Release Measures

<b>Steps to be taken in Case Material is Release or Spilled:</b>	Mop up or otherwise absorb spill and hold for disposal. Small spills may be absorbed with non-reactive absorbent (sand) and placed in a suitable, covered, labeled container. Prevent large spills from entering sewers and waterways. Contact emergency services and supplier for advice.
<b>Waste Disposal Methods:</b>	Dispose in accordance to federal, state and local regulations
<b>Precautions in Handling &amp; Storage</b>	Keep out of reach of children. Keep container closed during storage. For institutional and commercial use.

### 8. Control and Protective Measures

<b>Respiratory Protection:</b>	Use in well ventilated area
<b>Ventilation:</b>	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
<b>Personal Protective Equipment:</b>	
<b>Protective Gloves:</b>	Neoprene
<b>Eye Protection:</b>	Chemical splash resistance.
<b>Other:</b>	Full length rubber apron and boots.
<b>Hygienic Practices:</b>	Wash clothing before reuse. Wash your hands before eating, smoking, or using washroom.



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### 9. First Aid

**Inhalation**

Move to fresh air. If not breathing, give artificial respiration. If breathing difficult give oxygen and seek medical help.

**Skin:**

Immediately flush with soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

**Eye:**

Immediately flush with water for 15 minutes. Seek medical attention.

**Ingestion:**

Do NOT induce vomiting. If conscious, give 3-4 glasses of water and seek medical care.



# Material Safety Data Sheet

**MSDS Date:** 06/23/04  
**Product Name:** SSS Force4 Revive, Tile Restorer & Cleaner, Step 3 of 4  
**Product Number:** 24003

## 1. Products and Company Description

**Distribution Company Name:** Triple S, 2 Executive Park Drive, Billerica, MA, Phone: 800-323-2251  
**Product Class:** Tile Restorer & Cleaner, Step 3 of 4  
**Emergency Phone Number:** 888-779-1339  
**Hazard Rating:** Health: 2      Fire: 1      Reactivity: 0      Personal Protection: B

## 2. Hazardous Ingredients

<u>Ingredient</u>	<u>CAS #</u>	<u>Percent By Volume</u>
Hydrogen Chloride	7647-01-0	4 %
Phosphoric Acid	7664-38-2	4 %
Water	7732-18-5	91 %
Inert Ingredients	N/A	1 %

## 3. Physical Data

**Boiling Point/Range:** 275 °F  
**Vapor Pressure Range (mmHg):** N/A  
**Solubility In Water:** Complete  
**pH:** 2  
**Vapor Density:** N/A  
**Specific Gravity:** 1.58  
**Appearance and Color:** Clear Liquid, Citrus Odor

## 4. Fires and Explosion Hazard Information

**OSHA Flammability Class:** N/A  
**Flash Point:** N/A  
**Explosive Range:** N/A  
**Fire Extinguishing Media:** Appropriate to cause of fire.  
**Unusual Fire and Explosion Hazards:** N/A  
**Special Fire Fighting Procedures:** Use a positive pressure self-contained breathing apparatus.  
**Hazardous Decomposition or Combustion Products:** N/A

## 5. Health Hazard Information



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<b>Acute:</b>	Typical irritation.
<b>Chronic:</b>	Burns to skin.
<b>Signs and Symptoms of Exposure:</b>	Redness, tearing, burning or itching sensations.
<b>Medical Conditions Generally Aggravated by Exposure:</b>	Conditions of the skin.
<b>Emergency and First Aid Procedures:</b>	Flush with plenty of cool water at least 15 minutes. Seek medical attention if conditions persist. If taken internally, give a tablespoon of milk of magnesia diluted in a glass of water followed with large amounts of water. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

### 6. Stability & Reactivity Information

<b>Stability:</b>	This product is stable.
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.
<b>Materials to Avoid:</b>	Strong alkali, chlorine, ammonia.
<b>Hazardous Decomposition Products:</b>	Produces hydrogen when in contact with steel.

### 7. Accidental Release Measures

<b>Steps to be taken in Case Material is Released or Spilled:</b>	Mop up spill and return to container. Neutralize traces with soda ash (ventilate). Flush with water.
<b>Waste Disposal:</b>	Dilute and adjust pH and dispose of in accordance with all regulations.

### 8. Exposure Controls/Personal Protection

<b>Respiratory Protection:</b>	Positive pressure air supplied.
<b>Ventilation:</b>	Fresh air. Local exhaust required.
<b>Personal Protective Equipment:</b>	
<b>Protective Gloves:</b>	Neoprene
<b>Eye Protection:</b>	Chemical splash resistance.
<b>Other:</b>	Full length rubber apron and boots.
<b>Hygienic Practices:</b>	Wash clothing before reuse. Wash your hands before eating, smoking, or using washroom. Keep out of reach of all unauthorized persons and children.



# Material Safety Data Sheet

**MSDS Date:** 10/11/02  
**Product Name:** SSS Force4 *Shield*, Slip-Resistance & Sealer, Step 4 of 4  
**Product Number:** 24004

## 1. Products and Company Description

**Distribution Company Name:** Triple S, 2 Executive Park Drive, Billerica, MA, Phone: 800-323-2251  
**Product Class:** Slip-Resistance & Sealer, Step 4 of 4  
**Emergency Phone Number:** 888-779-1339  
**Hazard Rating:** Health: 1      Fire: 1      Reactivity: 0      Personal Protection: B

## 2. Material Identification and Information

<u>Chemical Name</u>	<u>CAS #</u>	<u>Percent By Volume</u>
Water	7732-18-5	< 98%
Proprietary A	Proprietary	<1 %
Proprietary B	Proprietary	<1%
Proprietary C	Proprietary	<1%
Proprietary D	Proprietary	<1%

## 3. Hazard Identification

**Eye:** Unlikely to cause eye irritation or injury.

**Skin:** Unlikely to cause skin irritation or injury.

**Ingestion:** Swallowing this material is not likely to be harmful.

**Inhalation:** It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material is not likely to be harmful.

## 4. First Aid Measures

**Eye Exposure:** First aid is not normally required. If irritation develops, remove individual from exposure and rinse eyes with water.

**Skin Exposure:** First aid is not normally required. If irritation develops, remove individual from exposure and rinse skin with water.

**Ingestion:** First aid is not normally required. If irritation develops, remove individual from exposure and seek medical attention.

**Inhalation:** First aid is not normally required. If irritation develops, remove individual from exposure and seek medical attention.

## 5. Fire Fighting Measures



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## Fire Hazard Data

**Flash Point:** Not applicable.  
**Explosive Limit:** Not applicable.  
**Auto Ignition Temperature:** Not applicable.  
**Hazardous Prod. of Combustion:** Not applicable.  
**Fire and Explosion Hazards:** No special fire hazards are known to be associated with this product.  
**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.  
**Fire Fighting Instructions:** No special precautions necessary when fighting fires involving this product.  
**NFPA Rating:** Health - 1, Flammability - 0, Reactivity - 1

## 6. Accidental Release Measures

**Small Spill:** Absorb liquid with floor absorbent or other absorbent material, if available. Otherwise, dispose in accordance with all applicable local, state and federal regulations.  
**Large Spill:** Absorb liquid with floor absorbent or other absorbent material, if available. Otherwise, dispose in accordance with all applicable local, state and federal regulations.

## 7. Handling and Storage

**Handling/Storage:** No special handling or storage requirements apply.

## 8. Exposure Controls /Personal Protection

**Eye Protection:** Wearing of safety glasses or goggles is always applicable with handling any liquid product. (Consult your safety representative).  
**Skin Protection:** Wear normal work clothing covering arms and legs. (Consult your safety representative).  
**Respiratory Protection:** Not required under normal conditions of use.  
**Engineering Controls:** Not required under normal conditions of use.

### Exposure Guidelines:

Component	CAS Number	ACGIH	NIOSH	OSHA-PELs
Water	7732-18-5	N/A	N/A	N/A
Proprietary A	Proprietary	None Established	None Established	None Established
Proprietary B	Proprietary	None Established	None Established	None Established
Proprietary C	Proprietary	None Established	None Established	None Established
Proprietary D	Proprietary	None Established	None Established	None Established

## 9. Physical and Chemical Properties

**Boiling Point:** 212.0 F. (100.0 C.)  
**Vapor Pressure:** 17.500 mmHg  
**Specific Vapor Density:** 600 @ AIR=1  
**Specific Gravity:** 980 - 1.020 @ 68.00 F.  
**Liquid Density:** 8.330 lbs/gal @ 68.00 F.  
980 - 1.020 kg/l @ 20.00 C.  
**Percent Volatile:** Not Applicable  
**Volatile Organic Compounds (VOC):** < 2.000 g/l  
**Evaporation Rate:** Slower than Ethyl Ether



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**Appearance:** Colorless to hazy white liquid  
**State:** Liquid  
**Physical Form:** Homogeneous Solution  
**Color:** Water White  
**Odor:** Slightly Pungent  
**pH:** 5

## 10. Stability and Reactivity

**Hazardous Polymerization:** Product will not undergo hazardous polymerization.  
**Hazardous Decomposition:** Not Applicable.  
**Chemical Stability:** Stable.  
**Incompatibility:** Not Applicable.

## 11. Toxicological Information

**Carcinogenicity:**  
    **NTP:** No  
    **IARC:** No  
    **OSHA:** No  
**Acute Dermal Toxicity:** Not Applicable.  
**Acute Respiratory Irritation:** Not Applicable.  
**Acute Ingestion Toxicity:** Not Applicable.  
**Acute Inhalation Toxicity:** Not Applicable.  
**Acute Oral Toxicity:** Not Applicable.  
**Chronic Toxicity:** Not Applicable.

## 12. Ecological Information

None.

## 13. Disposal Consideration

**Waste Management Information:** Dispose of in accordance with all applicable local, state and federal regulations.  
**Container Handling and Disposal:** Dispose of container and unused contents in accordance with local, state and federal regulations.

## 14. Transportation Information

**DOT Information - 49 CFR 172.101:**  
    **DOT Description:** Non-Regulated by D.O.T.  
    **Container / Mode:** 55 Gal Drum / Truck Package. 1 Gal Bottle / Truck Package.  
    **NOS Component:** None.  
**RQ (Reportable Quantity) - 49 CFR 172.101:** Not Applicable.  
**Other Transportation Information:** The DOT Transport Information may vary with the container and mode of shipment.

## 15. Regulatory Information



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## Federal Regulations:

### SARA Title III Hazard Classes:

Fire Hazard: No  
Reactive Hazard: No  
Release of Pressure: No  
Acute Health Hazard: No  
Chronic Health Hazard: No

**TSCA:** All components of this product are on the TSCA inventory.

## International Regulations:

**Inventory Status:** Not Determined.

## State and Local Regulations:

**California Proposition 65:** None

<b>16. Other Information</b>
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## Key Legend Information:

ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value  
PEL - Permissible Exposure Limit  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer

MANUFACTURED FOR: TRIPLE S Billerica, MA 01862 1-800-323-2251  
 EMERGENCY TELEPHONE: 1-888-779-1339

**SECTION 1 - PRODUCT**

NAME: STROBE  
 Triple S Product No: 13085, 13086, 13087  
 Product Type: Neutral No-Rinse Cleaner

HMIS HAZARD RATING		0-LEAST / MÍNIMO
HEALTH SALUD	1	1-SLIGHT / LIGERO
FLAMMABILITY INFLAMABILIDAD	0	2-MODERATE / MODERADO
REACTIVITY REACTIVIDAD	0	3-HIGH / SERIO
PERSONAL PROTECTION PROTECCION PERSONAL	A	4-EXTREME / MUY GRAVE
		A-glasses / lentes

**SECTION 2 - HAZARDOUS INGREDIENTS**

None

**SECTION 3 - HEALTH HAZARD & FIRST AID**

1. Acute Health Effect None
2. Chronic Health Effects None
3. Carcinogen NO
4. Primary Entry Routes:
  - a) Skin & Eyes: Repeated contact with the skin may be irritating. Eye contact may be slightly irritating.
  - b) Ingestion: May be harmful.
  - c) Inhalation: Not considered a hazard.
5. First Aid:
  - a) Skin: Remove contaminated clothing-wash skin with water. If irritation persists get medical attention.
  - b) Eyes: Wash eyes with large volumes of water for at least 15 minutes while lifting the upper and lower eyelids and rotating the eyeball. Get medical attention if irritation persists.
  - c) Ingestion: Give large volumes of water. Do not induce vomiting. Get medical attention.
  - d) Inhalation: N/A

**SECTION 4 - PHYSICAL & CHEMICAL CHARACTERISTICS**

1. Physical State Liquid
2. Color Clear Yellow Green
3. Odor Fougere
4. Solubility in water Complete
5. Specific Gravity (H2O=1.0) 0.998
6. pH 7.7
7. Freezing Point N/A
8. Flash Point None (will not burn)
9. Vapor Pressure N/A

**SECTION 5 - FIRE AND EXPLOSION HAZARD**

1. Flash Point None (will not burn)
2. Extinguishing Media N/A
3. Special Fire Fighting Procedures N/A
4. Unusual Fire & Explosion Hazard Fire fighters should observe all precautions that apply to any fire where chemicals are stored.

**SECTION 6 - REACTIVITY DATA**

1. Stability Stable
2. Conditions to Avoid None known

**SECTION 7 - SPILL OR LEAK PROCEDURES**

1. If product leaks or spills - Flood area with water-mop up dispose to sanitary sewer.
2. Abide by Federal, State, and Local regulations.

**SECTION 8 - PERSONAL PROTECTION**

1. Wear Goggles

**SECTION 9 - SPECIAL PRECAUTIONS**

1. Store containers tightly closed and in an upright position.
2. Do not destroy or deface the label.

**SECTION 10 - SECTION 313 SUPPLIER NOTIFICATION (SARA)**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

None

**SECTION 11 - TOXICOLOGICAL INFORMATION**

None

**SECTION 12 - ECOLOGICAL INFORMATION**

None

**SECTION 13 - DISPOSAL CONSIDERATIONS**

1. See Section 7 above.

**SECTION 14 - DOT TRANSPORT INFORMATION**

1. This product is Not Regulated.

**SECTION 15 - OTHER REGULATORY INFORMATION**

All ingredients appear on the TSCA Inventory List.

**SECTION 16 - OTHER INFORMATION**

1. N/A = Not Applicable
  2. PMCC = Pensky Martin Closed Cup
- The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.