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# 5 Star Stain Remover Safety Data Sheet

## 1. IDENTIFICATION

**Product Name:** 5 Star Stain Remover  
**Product Number:** 24303  
**Product Type and Use:** Cleaner / Degreaser  
**Manufacturer:** U.S. Corrosion Technologies, LLC  
2638 National Drive, Garland, TX 75041  
Telephone: 972-271-7361 Fax: 972-278-9721  
**Contact:**  
**Emergency Telephone:** CHEMTREC® USA (800) 424-9300  
Outside US +1 (703) 527-3887

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

#### Health Hazard(s)

Skin Corrosion/Irritation Category 1C  
Eye Irritation Category 1  
Acute Toxicity - Inhalation Category 4  
Acute Toxicity - Oral Category 4  
STOT RE Category 3

#### Physical Hazard(s)

Corrosive to metals Category 1

#### Hazard(s) not otherwise classified

None

### Labeling

**Signal Word:** DANGER  
**Pictograms:** Corrosion, Health Hazard

#### Statements of Hazard

##### Hazard Statements

Causes severe skin burns and eye damage  
Harmful if inhaled or swallowed  
May be corrosive to metals

##### Precautionary Statements

Wear protective gloves, eye and face protection. Do not breathe vapors or mist. Use only outdoors or in a well-ventilated area. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Store locked up in a well ventilated place. Keep only in original container. Absorb spillage to prevent material damage. Store in corrosive resistant container with resistant inner liner. Dispose of contents and container in accordance with applicable regulations.  
If on skin: Rinse skin with water/shower. Immediately call a poison center or doctor.  
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.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.  
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Ethylene glycol butyl ether	111-76-2	1-5*
Sodium Metasilicate	6834-92-0	1-5*
Ethoxylated alcohol phosphate	Trade Secret	1-5*

\* Exact percentage of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General Advice:** Causes skin and eye damage. May be absorbed through the skin; avoid contact. Do not swallow. Avoid breathing vapor or mist. Use with adequate ventilation. Keep container closed.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

**Skin Contact:** Remove contaminated clothing. Flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Immediately call a poison center or doctor.

**Eye Contact:** Immediately flush cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

**Ingestion:** Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Immediately call a poison center or doctor.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable:** Carbon Dioxide, Dry Chemical, and Foam

**Unsuitable:** Alcohol, Alcohol based solutions

**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.

**Hazardous Combustion/ Decomposition Products:** Oxides of carbon, phosphorous and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions / Protective Equipment / Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

**Methods and materials for containment and cleaning up:** Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Do not store or dispense into metal containers; especially aluminum. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according to local / national regulations.

## 7. HANDLING AND STORAGE

### HANDLING

**Precautions for Safe Handling:** Avoid skin and eye contact. Use with adequate ventilation. The headspace of unopened containers and empty containers may contain trace amounts of ethylene oxide. Avoid breathing vapor and mist. Follow all SDS/label precautions.

### STORAGE

**Conditions to avoid:** Store in a cool, dry, well-ventilated place in the original container. Separate from acids, reactive metals, and ammonium salts. Do not store or transfer in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Keep container tightly closed when not in use. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Ethylene glycol butyl ether	20 (Skin)	-	50	240	-	-
Sodium Metasilicate	-	2**	-	-	-	-
Ethoxylated alcohol phosphate	-	-	-	-	-	-
Ethylene Oxide	1	-	-	-	-	9

\*\*Manufacturers recommended exposure limit

**Engineering Controls:** Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

### Personal Protection

**Respiratory Protection:** None required under normal use conditions. In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator.

**Hand / Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.

**Eye / Face Protection:** Face shield with safety glasses with side-shields.

**General Hygiene Measures:** Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. An eyewash station and washing facilities should be readily accessible to the area of use. See 29 CFR 1910.132-138 for further guidance.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent	<b>Autoignition Temperature:</b>	Not applicable
<b>Physical State:</b>	Non-viscous liquid	<b>Percent Volatile by volume:</b>	92
<b>Odor:</b>	Pleasant	<b>Vapor Density (Air=1):</b>	1
<b>Color:</b>	Light Blue	<b>Evaporation Rate (BuAc= 1):</b>	<1
<b>Viscosity, cSt @ 40°C:</b>	Not established	<b>Vapor Pressure, mmHg @23°C:</b>	21.1
<b>cSt @ 100°C:</b>	Not established	<b>Solubility in water:</b>	Complete
<b>pH:</b>	12.3-13	<b>Octanol/Water Partition:</b>	Not established
<b>Boiling Point/ Range:</b>	>200°F / 93°C	<b>VOC Content (%):</b>	5
<b>Melting Point:</b>	>32°F / 0°C	<b>Specific Gravity @15.6°C:</b>	1.02
<b>Flash Point:</b>	Non-flammable	<b>Pour Point:</b>	>32°F / 0°C
<b>Method:</b>	Not applicable	<b>Non-volatile by Volume (%):</b>	8
<b>Lower Explosive Limit, vol %:</b>	Hydrogen, 4	<b>Dielectric Strength:</b>	Not applicable
<b>Upper Explosive Limit, vol %:</b>	Hydrogen, 75		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at ambient temperatures.

**Conditions to Avoid:** None known

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Aluminum and other reactive metals, glass, oxidizing agents, acids. May react with ammonium salt solutions resulting in evolution of ammonia gas. Carbon monoxide gas may be produced on contact with reducing sugars.

## 11. TOXICOLOGICAL INFORMATION

**Product Information:** Not established

### Ingredient Information

#### Acute Toxicity

Ethylene glycol butyl ether: Orl-Rat LD50 470 mg/kg, Skn-Rbt LD50 220 mg/kg, Ihl-Rat LC50 450 ppm 4 h

Sodium metasilicate: Orl-Rat LD50 600 mg/kg

Ethoxylated alcohol phosphate: Orl-Rat LD50 15,300 mg/kg estimated, Skn-Rbt LD50 27,400 mg/kg estimated

#### Acute Effects

**Signs and Symptoms of Overexposure:** Skin and serious eye irritation, Coughing/Sneezing

**Inhalation:** Vapor and mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.

**Skin Contact:** May cause redness, pain and burns. May be absorbed through skin in harmful amounts.

**Eye Contact:** May cause tearing, redness, pain, swelling of the conjunctiva and burns. May cause blindness.

**Ingestion:** May cause pain, nausea, vomiting and diarrhea.

**Primary Route(s) of Exposure:** Eyes, Skin, Inhalation

**Primary Route(s) of Entry:** Inhalation, Ingestion

**Target Organs:** Liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system

**Chronic Effects**

Ethylene glycol butyl ether Target Organ Effects: liver, kidneys, lymphatic system, skin, blood, eyes, CNS, respiratory system

**Carcinogenicity**

Ethylene glycol butyl ether: ACGIH A3, IARC Group 3

**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.

## 12. ECOLOGICAL INFORMATION

**Product Data:** Not established

**Ingredient Data**

Ethylene glycol butyl ether: Toxicity to Fish LC50 = 1490 mg/L *Lepomis macrochirus* 96 h, Water Flea EC50 1698 - 1940 mg/L 24 h *Daphnia magna*, 1000 mg/L 48 h *Daphnia magna*

Sodium metasilicate: Toxicity to Fish LC50 = 210 mg/L *Brachydanio rerio* 96 h, Water Flea EC50 216 mg/L 96 h *Daphnia magna*

**Elimination Information:** Ethylene glycol butyl ether: log Pow 0.81

## 13. DISPOSAL CONSIDERATIONS

**Product:** Dispose of in accordance with local regulations.

**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

**Road Transport**

**DOT Hazard Class:** 8

**Description:** Corrosive liquid

**UN-No.:** 3266

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium metasilicate)

**Sea Transport**

**IMDG/GGV See Class:** 8

**UN-No.:** UN3266

**Packing Group:** III

**Proper Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium metasilicate)

**Air Transport**

**ICAO/IATA Class:** 8

**UN-No.:** UN3266

**Packing Group:** III

**Shipping Name:** Corrosive liquid, basic, inorganic, n.o.s. (Sodium metasilicate)

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

**Toxic Substances Control Act (TSCA):** All components are included on the Inventory

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	X	-	-	-

## 16. OTHER INFORMATION

**Prepared by:** U.S. Corrosion Technologies, LLC Technical Services Department

**Revision Date:** 3/24/2015

**Supersedes Date:** 07/15/2010

**Revision Indicator:** Conversion to OSHA 2012 GHS SDS

National Fire Protection Association (704)

Health: 1

Flammability: 1

Reactivity: 0

Other: -

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