

## StarShine® STAINLESS STEEL CLEANER & POLISH

*An oil-based aerosol cleaner and polish for stainless steel, chrome, aluminum, brass, copper, and most other metal surfaces. When applied as directed, this product will clean and restore a high luster while leaving a tarnish-resistant protective coating on the surface.*

### FEATURES

- Removes deposits, polishes metal, and protects surfaces
- Contains no chlorinated solvents or ozone depleters
- Pleasant citrus fragrance



### RECOMMENDED SURFACES

Stainless steel, chrome, copper, aluminum, brass and most other metal surfaces

### PRODUCT DATA

Description:	Oil-based aerosol stainless steel cleaner
Appearance:	Clear colorless liquid
Fragrance:	Citrus
Net Weight:	15 US oz (425 grams)
Spray Pattern:	Medium, circular spray
Flammability:	Flammable
Shelf life:	2 years, ASTM D1791-93 (1998)

### PRECAUTIONS

Keep out of the reach of children. Contents under pressure. Do not puncture or incinerate container. Do not expose to temperatures above 120°F (49°C). Solvent resistant gloves and safety goggles are recommended.

### ORDERING INFORMATION

Product #319A12:	15 oz (425 grams)
	Twelve 15-oz aerosol cans per case

### DIRECTIONS FOR USE:

1. Remove protective cap.
2. Spray liberally on the surface to be cleaned.
3. Wipe with a clean, damp cloth leaving a small amount of residue on the surface.
4. Polish to a high luster with a clean dry cloth.

Pioneer Eclipse®

## STARSHINE STAINLESS STEEL CLEANER &amp; POLISH

**LAST REVISION DATE:** 03/22/06  
**MANUFACTURER:** Pioneer Eclipse® Corporation  
 Sparta, NC 28675 Phone: 1-336-372-8080  
**FOR CHEMICAL EMERGENCY:** Spill, Leak, Fire,  
 Exposure or Accident **CALL CHEMTREC - Day or  
 Night 1-800-424-9300** Toll Free in the  
 Continental US, **483-7616** in DISTRICT OF  
 COLUMBIA. For calls originating outside the US:  
 Call Collect **1-202-483-7616** Washington, DC.

**SECTION I: GENERAL INFORMATION**

**PRODUCT NAME:** StarShine® Stainless Steel  
 Cleaner & Polish  
**PRODUCT #:** 319  
**PRODUCT TYPE:** Aerosol Cleaner & Polish  
**PRECAUTIONS:** Skin and eye irritant. Keep out  
 of reach of children.

**FLAMMABILITY:** 4

**REACTIVITY:** 0

**HEALTH:** 2

**NFPA HAZARD RATINGS**

4-EXTREME 3-HIGH 2-MODERATE

1-SLIGHT 0-INSIGNIFICANT

**SECTION II: HAZARDOUS INGREDIENTS**

**INGREDIENT:** Butane/propane propellant mixture  
**CAS#:** (106-97-8)/(74-98-6)  
**OSHA PEL:** N/L for 106-97-8  
**OSHA PEL:** 1000 ppm (TWA) for 74-98-6  
**ACGIH TLV:** 1000 ppm (TWA)  
**LD<sub>50</sub> SPECIES & ROUTE:** N/E

**INGREDIENT:** Aliphatic hydrocarbon  
**CAS#:** 64742-47-8  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** >5 g/kg rat, oral

**INGREDIENT:** d-Limonene  
**CAS#:** 5989-27-5  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** >5 g/kg rat, oral

N/E = Not Established, N/L = Not Listed  
 N/A = Not Applicable

**SECTION III: PHYSICAL/CHEMICAL DATA**

**APPEARANCE AND ODOR:** Clear colorless liquid  
 with slight citrus fragrance  
**BOILING POINT:** N/A  
**DENSITY:** 0.8 kg per liter @ 20°C  
**VAPOR DENSITY (Air = 1):** >1  
**VAPOR PRESSURE:** <60 psig @ 70° F  
 <4.1 bar @ 21° C  
**PHYSICAL STATE:** Aerosol  
**pH:** N/A  
**FREEZING POINT:** <-40° F, -40° C  
**SOLUBILITY IN WATER:** Nil

**SECTION IV: FIRE AND EXPLOSION DATA**

**FLASH POINT:** Flammable Aerosol  
**EXPLOSIVE LIMITS:**  
 LOWER: N/E UPPER: N/E  
**EXTINGUISHING MEDIA:** Foam, dry chemical,  
 carbon dioxide  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear  
 self-contained breathing apparatus.  
**HAZARDOUS COMBUSTIBLE PRODUCTS:** None  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do  
 not expose aerosols to temperatures above  
 120° F / 49° C or the container may rupture.  
**CONDITIONS TO AVOID:** Extreme temperatures

**SECTION V: REACTIVITY DATA**

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**INCOMPATIBILITY (MATERIALS TO AVOID):**  
 Strong acids and oxidizers  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 Carbon monoxide, Carbon dioxide  
**REACTIVITY CONDITIONS:** Open flame, welding  
 arcs, heat, extreme temperatures

**SECTION VI: HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:** Overexposure and  
 toxicity depend upon duration of exposure.  
 Symptoms of overexposure include dizziness,  
 nausea, headache, and even loss of  
 consciousness. Aspiration may be a hazard.  
 May be harmful or fatal if swallowed.  
**INHALATION:** Excessive inhalation of vapors  
 can be harmful and may cause headache,  
 dizziness, asphyxia, anesthetic effects and  
 possible unconsciousness.  
**EYE CONTACT:** Mild irritation  
**SKIN CONTACT:** Mild irritation  
**INGESTION:** May be harmful or fatal  
 if swallowed.  
**EMERGENCY FIRST AID PROCEDURES**  
**EYE CONTACT:** Flush with water for 15 minutes.  
 Seek medical attention.  
**SKIN CONTACT:** Flush with plenty of water while  
 removing contaminated clothing and shoes.  
 Wash with plenty of soap and water for at  
 least 15 minutes.  
**INHALATION:** Remove to fresh air. Resuscitate  
 if necessary. Seek medical attention.  
**INGESTION:** DO NOT INDUCE VOMITING. Seek  
 immediate medical attention.

**SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES**

**SPILLS:** Absorb with suitable medium. Incinerate  
 or landfill according to local, state or Federal  
 regulations. DO NOT FLUSH TO SEWER.  
**WASTE DISPOSAL:** Consult local, state,  
 and federal authorities for proper disposal  
 methods. Wrap empty containers and put  
 in trash collection.

**SECTION VIII: SPECIAL PROTECTION**

**EYE PROTECTION:** Safety goggles recommended.  
**RESPIRATORY PROTECTION:** Organic vapor  
 respirator if exposure exceeds recommended TLV  
**VENTILATION:** General ventilation.  
**OTHER PROTECTIVE EQUIPMENT:** As required  
 by employer code. Wash hands before eating  
 or smoking.

**SECTION IX: SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** Do not puncture or  
 incinerate containers. Do not store at  
 temperatures above 120°F / 49°C.  
**OTHER PRECAUTIONS:** : KEEP OUT OF THE  
 REACH OF CHILDREN. Avoid food contamination.  
 Avoid breathing vapor.

**SECTION X: ADDITIONAL INFORMATION**

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This MSDS has been provided to you in accordance with  
 the OSHA HAZARD COMMUNICATION STANDARD  
 (29CFR1910.1200).

\*\*\*IMPORTANT SAFETY INFORMATION  
 DO NOT DISCARD\*\*\*  
 \*\*PLEASE ROUTE TO COMPANY SAFETY OFFICER\*\*

Pioneer Eclipse®

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