

## StarShine® OVEN & GRILL CLEANER

*Heavy-duty alkaline cleaner designed to cut through heavy grease, carbon, and baked on food residues.*

### FEATURES

- Great for use on ovens, griddles, hoods, vents, deep fryers and other food preparation areas
- Fresh, pleasant scent



### RECOMMENDED SURFACES

Electric burners, grills, ovens, stove burners and cooking utensils such as pots, pans, etc.

### PRODUCT DATA

Description:	Oven and grill cleaner
Appearance:	Thick colorless liquid
Fragrance:	Fresh
Viscosity (Brookfield):	350 ± 50 centipoise @ 68°F (20°C)
pH:	13.5 ± 0.5 ASTM E70-97
Density:	9.2 lb per gal @ 68°F 1.11 kg per liter @ 20°C
Flash Point:	None
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

### PRECAUTIONS

Keep out the reach of children. Do not use on aluminum. Avoid breathing vapors. Waterproof plastic or rubber gloves are recommended. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and mix thoroughly before using.

### ORDERING INFORMATION

Product #318MP: 4 x 1.06 gallon per case (4 x 4 liter)

### DIRECTIONS FOR USE

#### For heavy deposits of burned-on carbon and soil:

1. Remove all excess grease and debris with a scrub pad or scraper.
2. Apply StarShine Oven & Grill Cleaner to a warm surface using a trigger sprayer.
3. Allow to soak.
4. Wipe the surface with a sponge or clean disposable cloth. Stubborn stains may require burnishing with steel wool.
5. Rinse thoroughly with water.

#### Deep fat fryers:

1. Drain pot and wipe excess grease with paper towels.
2. Fill the fryer with water a few inches from the top.
3. Add StarShine Oven & Grill Cleaner per the following dilution:  
1:64 2 US oz per gallon water (80 ml per 5 liters water)
4. Heat until solution begins to boil and then let solution boil for 5 to 10 minutes.
5. Drain and wipe out residue with a sponge or clean disposable cloth.
6. Rinse thoroughly with water.

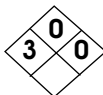
Pioneer Eclipse®

## STARSHINE OVEN &amp; GRILL CLEANER

**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® Oven & Grill Cleaner  
**PRODUCT #:** 318  
**PRODUCT TYPE:** Oven & Grill Cleaner  
**PRECAUTIONS:** Corrosive to skin and eyes. Keep  
 container sealed when not in use. Keep out of  
 reach of children. Keep away from open flames.  
**FLAMMABILITY:** 0  
**REACTIVITY:** 0  
**HEALTH:** 3  
**NFPA HAZARD RATINGS**  
 4-EXTREME 3-HIGH 2-MODERATE  
 1-SLIGHT 0-INSIGNIFICANT

**SECTION II: HAZARDOUS INGREDIENTS**

**INGREDIENT:** Sodium Hydroxide  
**CAS#:** 1310-73-2  
**%:** 5-15%  
**OSHA PEL:** 2 mg/m<sup>3</sup> (STEL)  
**ACGIH TLV:** 2 mg/m<sup>3</sup> (ceiling) (STEL)  
**LD<sub>50</sub> SPECIES & ROUTE:** 200 mg/kg rat oral

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

**SECTION III: PHYSICAL/CHEMICAL DATA**

**APPEARANCE:** Thick colorless liquid  
**pH:** 13.5±0.5  
**EVAPORATION RATE:** Less than water  
**VAPOR DENSITY:** Greater than air  
**VOLATILE BY WEIGHT:** 85-90%  
**VAPOR PRESSURE:** Less than water  
**DENSITY:** 9.2 lb per gal @ 68°F  
 1.11 kg per liter @ 20°C  
**SOLUBILITY IN WATER:** Miscible

**SECTION IV: FIRE AND EXPLOSION DATA**

**FLASH POINT:** None  
**EXPLOSIVE LIMITS:**  
 LOWER: N/E UPPER: N/E  
**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry  
 chemical, alcohol-type or universal type foams.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Do not  
 spray a solid stream of water or foam directly  
 into hot liquid. This may cause frothing.  
 Firefighters should wear NIOSH approved  
 breathing apparatus.  
**HAZARDOUS COMBUSTIBLE PRODUCTS:** N/A  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
 Materials can splatter above 100°C / 212°F.

**SECTION V: REACTIVITY DATA**

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**INCOMPATIBILITY (MATERIALS TO AVOID):**  
 Strong acids.  
**HAZARDOUS DECOMPOSITION PRODUCTS:**  
 None Known  
**REACTIVITY CONDITIONS:** None

**SECTION VI: HEALTH HAZARD DATA**

**EYES:** May cause severe burns or possible  
 corneal damage. For eye contact, flush with a  
 large amount of water for at least 15 minutes.  
 See a physician immediately.  
**SKIN:** Irritation, reddening or possible damage  
 upon repeated or prolonged contact. For skin  
 contact, wash affected areas with soap and  
 water. Seek medical attention if irritation persists.  
**INHALATION:** Vapor or mist can cause headache,  
 nausea and irritation of the eyes, nose, throat and  
 lungs. For overexposure, move subject to fresh  
 air. Seek medical attention if symptoms persist.  
**INGESTION:** May cause nausea, abdominal  
 discomfort, vomiting, diarrhea. If ingested, drink  
 two glasses of water or milk and do not induce  
 vomiting. Remove by endotracheal intervention.  
 Seek medical attention immediately.  
**CHRONIC EFFECTS AND MEDICAL CONDITIONS**  
**AGGRAVATED BY OVEREXPOSURE:** Main hazard  
 is due to product's severe irritant properties.  
 Treatment should be directed at the control of  
 symptoms and the clinical condition of  
 the patient.  
**CARCINOGEN:** Non-carcinogenic  
**REPRODUCTIVE EFFECTS:** N/E  
**TERATOGENICITY:** N/E  
**MUTAGENICITY:** N/E  
**THRESHOLD LIMIT VALUE:** See Section II.

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

**SMALL SPILLS:** Absorb spill with inert material  
 (e.g. sand, earth) and dispose of as waste  
 material in accordance with local, state and  
 federal regulations. Neutralize residue with  
 vinegar, mild acid or large amount of water.  
**LARGE SPILLS:** Keep spectators away. Floors  
 may be slippery; use care to avoid falling. Dike  
 and contain spill with inert material (e.g. sand,  
 earth). Transfer liquid to containers for recovery  
 or disposal and solid diking material to separate  
 containers for disposal. Keep spills and cleaning  
 runoff out of sewers and open bodies of water.

**WASTE DISPOSAL:** Landfill or incinerate the  
 contaminated solids and diking material  
 according to local, state and federal regulations  
 concerning disposal of hazardous materials.  
 Non-salvageable liquid should be drummed and  
 turned over to a licensed hazardous waste  
 disposal facility.

**SECTION VIII: SPECIAL PROTECTION**

**EYE PROTECTION:** Chemical splash goggles  
 (ANSI Z87.1-1989 or approved equivalent)  
**RESPIRATORY PROTECTION:** None required  
 when permissible airborne concentrations are  
 not exceeded. In emergency, use approved  
 positive pressure self-contained breathing device.  
**VENTILATION:** Mechanical local exhaust  
 ventilation at point of contamination release.  
**OTHER PROTECTIVE EQUIPMENT:** As required  
 by employer code. Rubber boots and chemical  
 resistant gloves recommended.

**SECTION IX: SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:** Storage temperature  
 (MAX. 60°C / 140°F) (MIN. 1°C / 34°F)  
**OTHER PRECAUTIONS:** Keep from freezing.

**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