

# POWERSTAR® ENVIROSTAR GREEN® DEGREASER

Powerful, heavy duty all purpose degreaser

## ADVANCED FORMULATION CONTAINING

- NO phosphates
- NO 2-butoxyethanol (butyl)
- NO VOC's
- NO alkyl phenol ethoxylate surfactants
- NO environmentally toxic preservatives
- NO added fragrances

## FEATURES

- Powerful, super fast degreaser
- Cleans grease, oils, lipsticks, crayons, etc.
- Concentrated for economical use



Recognized for Safer Chemistry  
www.epa.gov/dfc



This product meets the Green Seal™ environmental standard for industrial and institutional floor-care products based on its reduced human and aquatic toxicity and reduced smog production potential.

### RECOMMENDED SURFACES

For use on concrete, terrazzo, marble, stone, and resilient floors.

**NOTE:** Test floor for color fastness in an inconspicuous area.

### PRODUCT DATA

Description:	Degreaser
Appearance:	Clear colorless liquid
Fragrance:	None Added
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
pH (undiluted):	10.5 ± 0.5 ASTM E70-97
Density:	8.9 lb per gal @ 68°F 1.06 kg per liter @ 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)
Shelf Life:	2 years, ASTM D1791-93 (1998)

### PRECAUTIONS

Keep out of the reach of children. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and then mix thoroughly before using.

### ORDERING INFORMATION

Product #332GL5:	2 x 2.5 gallons per case (2 x 9.5 liters)
Product #332DR5:	55 gallons

### DIRECTIONS FOR USE:

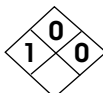
1. Mix PowerStar EnviroStar Green Degreaser per the following dilution ratio:
  - 1:8 16 US oz per gallon cold water
  - 1:8 4 US oz per quart cold water
  - 1:8 125 ml per 1 liter cold water
2. Apply with mop, automatic scrubber, trigger sprayer, or pump-up sprayer. Pick up solution or wipe dry.

# POWERSTAR ENVIROSTAR GREEN DEGREASER

**LAST REVISION DATE:** 12/09/08  
**MANUFACTURER:** Amano Pioneer Eclipse® Corp.  
 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:** PowerStar® EnviroStar Green®  
 Degreaser  
**PRODUCT #:** 332  
**DESCRIPTION:** Degreaser  
**PRECAUTIONS:** Possible skin and eye irritant.  
 Keep container sealed when not in use. Keep out  
 of reach of children.  
**HEALTH:** 1  
**FLAMMABILITY:** 0  
**REACTIVITY:** 0  
**NFPA HAZARD RATINGS**



4-EXTREME 3-HIGH 2-MODERATE  
 1-SLIGHT 0-INSIGNIFICANT

**SECTION II: INGREDIENTS**

**INGREDIENT:** Water  
**CAS#:** 7732-18-5  
**%:** 63-74  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** N/E

**INGREDIENT:** Biodegradable Anionic Hydrotrope  
**CAS#:** 1300-72-7  
**%:** 10-15  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** 650 mg/kg rat, oral

**INGREDIENT:** Glycol Ether  
**CAS#:** 29911-28-2  
**%:** 15-20  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** 3.70 g/kg rat, oral

**INGREDIENT:** Potassium Citrate  
**CAS#:** 866-84-2  
**%:** 3-5  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** >N/A

**INGREDIENT:** Biodegradable Nonionic Surfactant  
**CAS#:** 68439-46-3  
**%:** 0.5-1.0  
**OSHA PEL:** N/E  
**ACGIH TLV:** N/E  
**LD<sub>50</sub> SPECIES & ROUTE:** 0.0014 g/kg rat, oral

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

**SECTION III: PHYSICAL/CHEMICAL DATA**

**APPEARANCE:** Clear colorless liquid  
**pH:** 10.5 ± 0.5  
**BOILING POINT:** 100°C / 212°F  
**EVAPORATION RATE:** Less than water  
**FREEZING POINT:** 0°C / 32°F  
**VAPOR DENSITY:** Greater than air  
**VOLATILE BY WEIGHT:** 78-81%  
**VAPOR PRESSURE:** Less than water  
**DENSITY:** 8.9 lb per gal @ 68°F  
 1.06 kg per liter @ 20°C  
**SOLUBILITY IN WATER:** Miscible

**SECTION IV: FIRE AND EXPLOSION DATA**

**FLASH POINT:** >200°F, TCC (93°C)  
**EXPLOSIVE LIMITS:**  
 LOWER: N/E UPPER: N/E  
**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry  
 chemical, alcohol-type or universal type  
**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:** N/A

**SECTION V: REACTIVITY DATA**

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

**SECTION VI: HEALTH HAZARD DATA**

**EYES:** Slightly irritating to eyes. For eye contact,  
 flush with a large amount of water for at least  
 15 minutes. See a physician if irritation persists.  
**SKIN:** Slightly irritating to skin upon repeated or  
 prolonged contact. For skin contact, rinse with  
 a large amount of water.  
**INHALATION:** Spray mist can cause irritation of  
 the eyes, nose, throat and lungs. For  
 overexposure, move subject to fresh air.  
**INGESTION:** Irritation to mouth, esophagus  
 and stomach. If ingested, give 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:** Prolonged or  
 repeated contact can cause drying, defatting and  
 dermatitis to skin.  
**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.

**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:** Dispose of as waste  
 material in accordance with local, state,  
 and federal regulations.

**SECTION VIII: SPECIAL PROTECTION**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**  
**EYES:** None required under normal conditions  
 of use. Safety glasses recommended.  
**SKIN:** If prolonged or repeated contact is  
 possible, chemical-resistant clothing (e.g.,  
 rubber gloves) is recommended.  
**RESPIRATORY:** No respiratory protection is  
 required if ventilation is adequate.  
**ENGINEERING CONTROLS:** Good general room  
 ventilation is expected to be adequate. Local  
 exhaust ventilation (e.g., fans) may be necessary  
 when general ventilation does not keep airborne  
 concentrations below any exposure limits.

**SECTION IX: SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE:**  
 Storage temperature (MAX. 60°C / 140°F)  
 (MIN. 1°C / 34°F)  
**OTHER PRECAUTIONS:** Avoid freezing.  
 If frozen, allow to return to room  
 temperature slowly. Mix thoroughly  
 before using.

**SECTION X: ADDITIONAL INFORMATION**

Neither this data sheet nor any statement  
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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\*\*

