

ENVIROSTAR GREEN™ SPRAY & WIPE DEGREASER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: EnviroStar Green Spray & Wipe Degreaser **Product Number:** 332
Recommended Use: Spray and wipe degreaser
 Concentrate - Dilute prior to use.
 Product intended for commercial and industrial use only.
Uses Advised Against: Other than per labelled instructions


Manufacturer Address:
 Amano Pioneer Eclipse Corporation
 P.O. Box 909
 1 Eclipse Road
 Sparta, NC 28675
 Telephone: 1-336-372-8080
 Email: msds@pioneer-eclipse.com
 Internet: www.pioneereclipse.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
 Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

Classification: Skin Irritation - Category 2
 Eye Irritation - Category 2

Signal Word: WARNING

Pictogram: 

Hazard Statements:
 Causes skin irritation.
 Causes serious eye irritation.

Precautionary Statements:
 Wash thoroughly after handling.
 Wear protective gloves/eye protection/face protection.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 If skin irritation occurs: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazards: None known

Supplemental Information: None

3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | Weight % * |
|---------------------|------------|------------|
| citric acid | 77-92-9 | 1 - 5 |
| potassium hydroxide | 1310-58-3 | 1 - 5 |

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact: Flush eyes with plenty of water, for at least 15 minutes. If easy to do, remove contact lenses if worn. If irritation persists, seek medical attention.

ENVIROSTAR GREEN™ SPRAY & WIPE DEGREASER

Skin Contact: Wash with soap and plenty of water. If irritation persists, seek medical attention.
Inhalation: If breathing is difficult, remove subject to fresh air. If symptoms persist, seek medical attention.
Ingestion: Call a physician or poison control center. Do not induce vomiting. Seek medical advice.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Can be irritating to eyes.
Skin Contact: Can be irritating to skin.
Inhalation: Spray mist may cause irritation to nose, throat and lungs.
Ingestion: May cause irritation to mouth, esophagus and stomach.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Water spray, CO₂, dry chemical, alcohol-type or universal type foams
Specific Hazards: Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing.
Protective Equipment and Precautions: Fire fighters should wear NIOSH approved breathing apparatus. Materials can splatter above 100° C / 212° F

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling.
Environment Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

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: 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.
Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use in well-ventilated areas. Avoid breathing vapors or mists.
Conditions for Safe Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)
Other Information: Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Exposure Limits:

| Ingredient | CAS Number | ACGIH | | OSHA | |
|---------------------|------------|-------|-------------------------------|------|-------------------------------|
| | | TWA | STEL | TWA | STEL |
| potassium hydroxide | 1310-58-3 | N/A | 2 mg/m ³ (ceiling) | N/A | 2 mg/m ³ (ceiling) |

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Safety eyewear is recommended, to avoid chemical splashes and mists.
Skin Protection: Chemical resistant gloves are recommended.
Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

ENVIROSTAR GREEN™ SPRAY & WIPE DEGREASER
9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---------------------------------------|
| Appearance: | clear, colorless liquid |
| Odor: | No added fragrance |
| Odor Threshold: | N/E |
| pH: | 10.5 |
| Freezing Point: | N/E |
| Boiling Point: | N/E |
| Flash Point: | > 200 °F / > 93°C |
| Evaporation Rate: | less than water |
| Flammability: | Not flammable |
| Flammability limits: | N/E |
| Vapor Pressure: | N/E |
| Vapor Density: | N/E |
| Relative Density: | 8.9 lb/gal @ 68°F / 1.06 kg/l @ 20 °C |
| Solubility: | miscible in water |
| Partition Coefficient: | N/E |
| Auto Ignition temperature: | N/E |
| Decomposition Temperature: | N/E |
| Viscosity: | < 10centipoise @ 68 °F (20 °C) |
| VOC: | 0.05% (as supplied) 0.01% (1:8) |

10: STABILITY AND REACTIVITY

| | |
|--|---------------------------------------|
| Reactivity: | Not reactive under normal conditions. |
| Stability: | Stable under normal conditions. |
| Hazardous reactions: | None expected. |
| Conditions to avoid: | None known. |
| Incompatible materials: | Strong acids and oxidizing agents |
| Hazardous decomposition products: | None known. |

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

LOCAL EFFECTS

| | |
|-------------------------|-----------------------|
| Skin contact: | May cause irritation. |
| Eye contact: | May cause irritation. |
| Sensitization: | None expected |
| Chronic effects: | None expected |

SPECIFIC EFFECTS

| | |
|------------------------------|------------|
| Carcinogenicity: | None known |
| Reproductive effects: | None known |
| Teratogenicity: | None known |
| Mutagenicity: | None known |

COMPONENT INFORMATION

| Component | LD50 Oral-Rat (mg/kg) | LD50 Dermal - Rabbit (mg/kg) | LC ₅₀ Inhalation-Rat (mg/l) |
|---------------------|-----------------------|------------------------------|--|
| citric acid | 3000 | not available | not available |
| potassium hydroxide | 273 | not available | not available |

Carcinogenicity: Components are not known to be classified as carcinogens. (IARC, NTP, OSHA).

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.

ENVIROSTAR GREEN™ SPRAY & WIPE DEGREASER

Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional and national regulations.

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

UN Number: None
UN Proper Shipping Name: None
Hazard Class: None
Packing Group: None
Marine Pollutant: None
Transport in Bulk: N/A
Other Information: None

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING:

| Ingredient | CAS Number | SARA 302/304 | SARA 313 | CERCLA |
|---------------------|------------|--------------|----------|------------|
| potassium hydroxide | 1310-58-3 | N/L | N/L | 1000 lb RQ |

STATE RIGHT-TO-KNOW STATUS:

| Ingredient | CAS Number | MA - RTK | NJ - RTK | PA - RTK | RI - RTK |
|---------------------|------------|----------|----------|----------|----------|
| potassium hydroxide | 1310-58-3 | present | present | present | present |

CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.


16: OTHER INFORMATION

Abbreviations Used:

N/A - Not applicable
 N/E - Not Established
 N/L - Not Listed

Revision Information:

May 27, 2015 - Revisions to 1910.1200 GHS standard

| | |
|---|---|
|  | |
| Health: | 2 |
| Flammability: | 0 |
| Reactivity: | 0 |

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.

This SDS 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****