

## PRODUCT NAME: ENVIROSTAR GREEN MILD ACID WASHROOM CLEANER

### I. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>PRODUCT NAME</b>	: EnviroStar Green Mild Acid Washroom Cleaner	Product Number: 333MP
<b>PRODUCT USE</b>	: Water based washroom cleaner concentrate	

<b>MANUFACTURER</b>	: Pioneer Eclipse Corp.	
<b>P.O.BOX</b>	: 909	
<b>ADDRESS</b>	: 1 Eclipse Road, Sparta, North Carolina, 28675, USA	
<b>PHONE</b>	: +1 336 372 8080	

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation:** Preparation

#### INFORMATION ON HAZARDOUS INGREDIENTS

Chemical Name	Einecs No.	Weight %	CAS No.	Symbol	R phrases *
Amines, C12-18-alkyldimethyl, N-oxides	273-281-2	2-5	68955-55-5	X <sub>i</sub> (irritant) Dangerous for the Environment (N)	R38, R50
Citric acid mono hydrate	201-069-1	5-<15	5949-29-1	Xi (irritant)	R 36/37/38

\*see section 16 for the full text of relevant R phrases

### 3. HAZARDS IDENTIFICATION

**Physical/chemical hazards:** No physical or chemical hazards have been reported or are known.  
**Human health hazards:** This product is not dangerous according to the EU regulations 67/548/EEC-1999/45/EC).  
**Environmental hazards:** On the basis of available information this material/preparation is not expected to produce any significant adverse environmental effects when used as directed.

### 4. FIRST AID MEASURES

#### EFFECTS AND SYMPTOMS

**Inhalation:** None known  
**Ingestion:** None known  
**Skin contact:** May be irritating  
**Eye contact:** May be irritating

#### FIRST AID MEASURES

**Inhalation:** No specific measures required  
**Ingestion:** No specific measures required  
**Skin contact:** Immediately wash off with plenty of water. If irritation develops, get medical attention.  
**Eye contact:** Immediately wash out with water. If irritation develops, get medical attention.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Dry chemical, water spray, foam, carbon dioxide  
**Hazardous combustion products:** None  
**Unusual fire and explosion hazards:** Materials can splatter above 100°C/212°F.  
**Special fire fighting procedures:** None

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### 6. ACCIDENTAL RELEASE MEASURES

- Small spills:** Absorb spill on inert material (e.g. sand, earth) and dispose of as waste material in accordance with national and regional provisions.
- 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.

### 7. HANDLING AND STORAGE

- Handling:** Avoid contact with skin and eyes
- Storage:** Storage temperature (Max. 60°C/140°F) (Min. 1°C/34°F). Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- Exposure limit values:** None established
- Exposure controls:** No special ventilation requirements. Ensure adequate general ventilation.

#### OCCUPATIONAL EXPOSURE CONTROLS

- Respiratory protection:** No specific personal protection is required.
- Hand protection:** Rubber gloves recommended
- Eye protection:** Safety glasses recommended
- Skin protection:** If major exposure is possible, wear suitable protective clothing such as rubber boots, apron, etc.

**Environmental exposure controls:** No specific environmental exposure controls required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### GENERAL INFORMATION

**Appearance:** Colorless liquid

**Odour:** none

#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** 2.0 to 3.0

**Flash point:** None

**Oxidizing properties:** Not an oxidizer

**Relative density:** 1,04 kg/l @ 20°C

**Partition coefficient (n-octanol/water):** Not determined

**Vapour density:** Greater than air

**Other information:** N/A

**Boiling point/boiling range:** 100°C

**Explosive properties:** None

**Vapour pressure:** Less than water

**Solubility:** 100% soluble in water

**Viscosity:** <10 centipoise @ 20°C

**Evaporation rate:** Less than water

### 10. STABILITY AND REACTIVITY

- Conditions to avoid:** None known
- Materials to avoid:** None known
- Hazardous decomposition products:** None known

**PRODUCT NAME: ENVIROSTAR GREEN MILD ACID WASHROOM CLEANER****11. TOXICOLOGICAL INFORMATION****Component Summary**

Amines, C12-18-alkyldimethyl, N-oxides

**Potential Health Effects**

**Eye:** Severely irritating to eyes.

**Skin:** Irritating to skin.

**Ingestion:** May cause gastrointestinal irritation including nausea and diarrhea.

**Inhalation:** May be irritating to respiratory system.

**Chronic:** None known.

**CARCINOGENICITY:** Not expected to occur.

Citric acid mono hydrate

**Acute Toxicity:** LD<sub>50</sub> 11.7g/kg rat (oral)

**Potential Health Effects**

**Eye:** Highly irritating, may also be abrasive.

**Skin:** Causes irritation to skin including redness, itching and pain.

**Ingestion:** Causes irritation to the gastrointestinal tract such as nausea, vomiting and diarrhea.

**Inhalation:** Causes irritation to the respiratory tract.

**Chronic:** May cause tooth enamel erosion.

**CARCINOGENICITY:** Not expected to occur.

**PREPARATION SUMMARY**

**Acute Toxicity:** LD<sub>50</sub> estimated to be greater than 5000 mg/kg

**LOCAL EFFECTS**

**Skin contact:** Irritating to skin upon repeated or prolonged contact.

**Eye contact:** Slightly irritating

**Sensitization:** None known

**Chronic effects:** None known

**SPECIFIC EFFECTS**

**Carcinogenicity:** None known

**Reproductive effects:** None known

**Teratogenicity:** None known

**Mutagenicity:** None known

**12. ECOLOGICAL INFORMATION****Component Summary**

Amines, C12-18-alkyldimethyl, N-oxides

Aquatic Toxicity: fish, CL50: <1 mg/l

Also poisonous for fish and plankton in water bodies.

**PREPARATION SUMMARY**

**Ecotoxicity:** This preparation is highly soluble in water. Limited toxicity tests and models indicate this preparation should exhibit low toxicity to aquatic organisms.

**Environmental fate:** This preparation will biodegrade relatively rapidly in both soil and water, and will not persist in the environment. Due care should be taken to avoid accidental releases to aquatic or terrestrial systems.

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**Bioaccumulation:** Because of this preparation's high solubility and rapid biodegradability, it is unlikely that bioaccumulation will occur in aquatic or terrestrial systems. Models estimate that this material will preferentially partition to water versus air or soil. Based on available information, this preparation is not expected to produce any significant adverse environmental effects when used as directed.

### 13. DISPOSAL

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

### 14. TRANSPORT INFORMATION

#### INTERNATIONAL TRANSPORTATION REGULATIONS:

This product is not classified for transportation under ADR/IMDG regulations.

**UN number:** not applicable

**Packing group:** not applicable

#### LAND-ROAD/RAILWAY

**Proper shipping name:** not applicable

**ADR/RID class:** not applicable

**ADR/RID item number:** not applicable

#### SEA

**Proper shipping name:** not applicable

**IMDG class:** not applicable

#### AIR

**Proper shipping name:** not applicable

**ICAO class:** not applicable

**Medical First Aid Guide (MFAG):** not applicable

**Emergency Schedules (EmS):** not applicable

**Marine Pollutant:** none

### 15. REGULATORY INFORMATION

**NATIONAL REGULATIONS:** No additional national regulations are known to the supplier.

#### EU REGULATIONS

**EU Classification:** Classified as non-hazardous according to current legislation (67/548/EEC, 1999/45/EC).

**EINECS Status:** All ingredients are included in the EINECS inventories.

**CANADA CPR Status:** This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

**Risk phrases:** See section 16.

**Safety phrases:** S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28a-After contact with skin, wash immediately with plenty of water.  
S37/39- Wear suitable gloves and eye/face protection.  
S61-Avoid release to the environment.

**PRODUCT NAME: ENVIROSTAR GREEN MILD ACID WASHROOM CLEANER****Other Data**

The surfactant contained in this preparation complies with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member states and will be made available to them, at their direct request or at the request of the detergent manufacturer.

**16. OTHER INFORMATION****Relevant R phrases:**

R38-irritating to skin.

R50-Very toxic to aquatic organisms

R36/37/38- Irritating to eyes, respiratory system and skin.

**Detergent/Cleaner Labeling (89/542/EEC):**

(2-5%) Nonionic surfactant and (<.1%) Preservative-Surcide P.

**Issued by:**

Timothy J Wright, Chemical Research & Development Manager

**Revision information:** new