



MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 26/09/2005

PRODUCT NAME: ENVIROSTAR GREEN GLASS & SURFACE CLEANER

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

| | | |
|---------------------|--|-----------------------|
| PRODUCT NAME | : EnviroStar Green Glass & Surface Cleaner | Product Number: 331MP |
| PRODUCT USE | : Water based glass & surface cleaner concentrate | |
| MANUFACTURER | : Pioneer Eclipse Corp. | |
| P.O.BOX | : 909 | |
| ADDRESS | : 1 Eclipse Road, Sparta, North Carolina, 28675, USA | |
| PHONE | : +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 _i (irritant) Dangerous for the Environment (N) | R38, R41, R50 |

*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

PRODUCT NAME: ENVIROSTAR GREEN GLASS & SURFACE CLEANER

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: 8.5 to 9.5

Flash point: None

Oxidizing properties: Not an oxidizer

Relative density: 1.02 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 GLASS & SURFACE CLEANER**11. TOXICOLOGICAL INFORMATION****Component Summary**

Amines, C12-18-alkyldimethyl, N-oxides

Potential Health Effects

Eye: Severely irritating to eyes. May cause permanent damage.

Skin: Irritating to skin.

Ingestion: May cause gastro-intestinal irritation including nausea and diarrhea.

Inhalation: May be irritating to respiratory system.

Chronic: None known.

CARCINOGENICITY: Not expected to occur.

PREPARATION SUMMARY

Acute Toxicity: LD₅₀ 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.

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

PRODUCT NAME: ENVIROSTAR GREEN GLASS & SURFACE CLEANER

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.

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.

PRODUCT NAME: ENVIROSTAR GREEN GLASS & SURFACE CLEANER**16. OTHER INFORMATION****Relevant R phrases:**

R38-irritating to skin.

R50-Very toxic to aquatic organisms

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

(5-<15%) Nonionic surfactant and (<5%) Preservative-Surcide P.

Issued by:

Genie G Bost, Regulatory Affairs Manager

Revision information:

26/09/2005, revision conforming to 648/2004/EC