



# MATERIAL SAFETY DATA SHEET

Conforms to 2001/58/EC Issued: 13/10/2005

**PRODUCT NAME: ENVIROSTAR 2000 FLOOR SEALER**

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

<b>PRODUCT NAME</b>	: Envirostar 2000 Floor Sealer	Product Number: 406
<b>PRODUCT USE</b>	: Floor Sealer	

<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 *
Diethylene Glycol Ethyl Ether	203-919-7	2-5	111-90-0	Xi (irritant)	R36
Diethylene Glycol Monobutyl Ether	203-961-6	2-5	112-34-5	Xi (irritant)	R36

\* 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 mildly irritating  
**Eye contact:** May be mildly 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.

## PRODUCT NAME: ENVIROSTAR 2000 FLOOR SEALER

Special fire fighting procedures: None

### 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:** Thin milky white opaque liquid

**Odour:** Slight ammonia

#### IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

**pH:** 7.2 to 8.2

**Flash point:** None

**Oxidizing properties:** Not an oxidizer

**Relative density:** 1.034 kg/l @ 20°C

**Solubility:** 100% soluble (dispersible) in water

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

**Other information:** forms a clear film upon drying

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

**Explosive properties:** None

**Vapour pressure:** Less than water

**Viscosity:** Less than 25 centipoise @ 20°C

**Vapour density:** Greater than air

**Evaporation rate:** Less than water

### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** None known

**Materials to avoid:** None known

**Hazardous decomposition products:** None known

### 11. TOXICOLOGICAL INFORMATION

## PRODUCT NAME: ENVIROSTAR 2000 FLOOR SEALER

### COMPONENT SUMMARY

#### Diethylene Glycol Ethyl Ether

LD<sub>50</sub>: (Oral) rat 5.5 g/kg

LD<sub>50</sub>: (Skin) rabbit 9.0 g/kg

#### Potential Health Effects

**Eye:** May cause irritation to eyes. Symptoms include stinging, tearing, redness and swelling of eyes.

**Skin:** Mild skin irritation. May cause redness and burning of skin.

**Ingestion:** Small amount swallowed not likely to cause injury. Larger amounts may cause injury similar to inhalation health effects. Also see below acute oral effects below.

**Inhalation:** Breathing small amounts not harmful but large amounts may be harmful. May cause dizziness or drowsiness, central nervous system depression, nausea, headache, confusion or unconsciousness.

**Chronic:** May cause liver or kidney damage.

#### ACUTE ORAL EFFECTS:

Rat toxicity data (5.0 g/kg/day) indicates oxalate crystals in urine, degeneration of the liver and renal tubules, and transient dermatitis.

#### Repeated Dose Toxicity:

In a two year drinking water study with rats and mice no adverse effects were observed at 1% and 5%, respectively.

**CARCINOGENICITY:** Not expected to occur.

#### Diethylene Glycol Monobutyl Ether

LD<sub>50</sub>: (Oral) rat 5.7 g/kg

LD<sub>50</sub>: (Skin) rabbit 2.7g/kg

#### Potential Health Effects

**Eye:** Moderately irritating to eyes. May cause burning, redness, swelling and/or blurred vision.

**Skin:** Moderate skin irritation. May cause redness, swelling and/or blisters.

**Ingestion:** May cause irritation of gastrointestinal tract and central nervous system disturbances.

**Inhalation:** May cause irritation of respiratory tract and central nervous system effects.

**Chronic:** Repeated contact can cause defatting of the skin which can lead to dermatitis.

**CARCINOGENICITY:** Can lead to central nervous system and gastrointestinal disturbances.

### PREPARATION SUMMARY

**Acute Toxicity:** LD<sub>50</sub> estimated to be greater than 2000 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

## PRODUCT NAME: ENVIROSTAR 2000 FLOOR SEALER

### COMPONENT SUMMARY

Diethylene Glycol Monoethyl Ether

Fathead Minnow; 96 hr; LC50 > 10000 mg/l

Diethylene Glycol Monobutyl Ether

Fish low toxicity: LC/EC/IC50 > 100 mg/l

### PREPARATION SUMMARY

- Ecotoxicity:** This material is highly soluble in water. Limited toxicity tests and models indicate this material should exhibit low toxicity to aquatic organisms.
- Environmental fate:** This material 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 material'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. On the basis of available information this material/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.



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## 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*.

## 16. OTHER INFORMATION

**Relevant R-phrases**

R36: Irritating to eyes

**Issued by:**

Genie G Bost, Regulatory Affairs Manager

**Revision Information:**

13/10/2005, revisions conforming to 2001/58/EC